

United States Department of the Interior Bureau of Land Management

Rawlins District Office

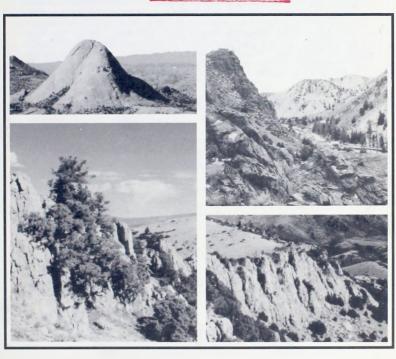
March 1990



Lander Final Wilderness Environmental Impact Statement

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Lander Wilderness Environmental Impact Statement

() Draft (X) Final Environmental Impact Statement

Type of Action: () Administrative (X) Legislative

Responsible Agencies:

Lead Agency: Department of the Interior, Bureau of Land Management

Cooperating Agencies: None

Abstract

The Lander Final Wilderness Environmental Impact Statement analyzes six wilderness study areas (WSAs) in the Rawlins District to determine the resource impacts that could result from designation or nondesignation of those WSAs as wilderness. The following WSAs are recommended as nonsuitable for wilderness designation: Lankin Dome, WSA 030-120 (6,316 acres), Split Rock, 030-122 (12,749 acres), Savage Peak, 030-123a (7,041 acres), Miller Springs, 030-123b (6,429 acres), and Copper Mountain, 030-111 (6,858 acres). For the Sweetwater Canyon WSA, 030-101 (9,056 acres), 3,518 acres are recommended as nonsuitable for wilderness designation; the remaining portion (5,538 acres) is recommended for wilderness designation.

Comments have been requested and received from the following:

See the "Consultation" section.

Date draft statement made available to the Environmental Protection Agency and the public.

Draft EIS: Filed 11/7/85

Final EIS:



United States Department of the Interior



BUREAU OF LAND MANAGEMENT WYOMING STATE OFFICE P.O. BOX 1828 CHEYENNE, WYOMING 82003

Dear Reader:

Enclosed is the Final Environmental Impact Statement (EIS) prepared for six Wilderness Study Areas (WSAs) in the Lander Resource Area of our Rawlins District. The WSAs include; Sweetwater Canyon, Lankin Dome, Split Rock, Miller Springs, Savage Peak, and Copper Mountain. You were sent this copy because of your past interest and participation in the review of the draft version of the EIS.

The six areas described in this EIS were studied for possible wilderness designation under the authority of Section 603 of the Federal Land Policy and Management Act of 1976 (FLPMA). The Bureau of Land Management's recommendations for the six WSAs will be forwarded to the Secretary of Interior who will then forward his recommendations to the President. The President, in turn, will forward his recommendations to Congress. Only Congress can designate an area as wilderness. The next opportunity for public comment regarding whether or not these areas should be added to the wilderness system will be during the legislative process.

Thank you for your interest in the Bureau's wilderness study. For further information, please contact: District Manager, Rawlins District Office, Bureau of Land Management, P.O. Box 670, Rawlins, Wyoming 82301.

Sincerely,

Ray Brubaker

Wyoming State Director

FINAL

LANDER WILDERNESS ENVIRONMENTAL IMPACT STATEMENT for the LANDER RESOURCE AREA

Prepared by:

U.S. Department of the Interior Bureau of Land Management Rawlins District Rawlins, Wyoming

1989

Wyoming State Director

12-8-89

Date

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SUMMARY

This Environmental Impact Statement (EIS) analyzes the impacts that would result from designating or not designating six wilderness study areas (WSAs) as wilderness. The proposed action recommends a nonwilderness designation for five of the WSAs: WSA 030-120, Lankin Dome (6,316 acres), WSA 030-122 Split Rock (12,749 acres), WSA 030-123a Savage Peak (7,041 acres), WSA 030-123b Miller Springs (6,429 acres), and WSA 030-111 Copper Mountain (6,858 acres). The proposed action also recommends a portion of WSA 030-101 Sweetwater Canyon for nonwilderness designation (3,518 acres) and a portion for wilderness designation (5,538 acres).

Several significant environmental issues developed in the study process. Issues common to all WSAs include: (1) impacts on wilderness values and (2) impacts on the development of energy and mineral resources. For Sweetwater Conyon and Copper Mountain an issue of impacts on recreation use was developed. For the Sweetwater Rocks WSA complex, an issue of impacts on local ranching operations was developed.

The alternatives for each WSA and the significant impacts are summarized below.

ALTERNATIVES AND SIGNIFICANT IMPACTS BY WSA

Sweetwater Canyon

Proposed Action (Partial Wilderness)

As stated above, the Proposed Action would recommend 5,538 acres for wilderness designation and 3,518 acres for nonwilderness.

Significant impacts under the Proposed Action relate to the retention of wilderness values and the development of locatable mineral deposits. Wilderness values would be retained on 5,538 acres, which include the river canyon itself. The same area would be withdrawn from all forms of mineral entry so that future opportunities to explore for and develop locatable minerals would be forgone on 5,538 acres. The remaining 3,518 acres of nonwilderness would be available for mineral entry, but no activity other than annual assessment work on existing mining claims is anticipated.

No Wilderness Alternative

All 9,056 acres of the Sweetwater Canyon WSA would be recommended as nonsuitable for wilderness designation.

The major impacts under this alternative relate to the potential loss of wilderness values over the long term. Here, wilderness values would not be assured long-term protection under the provisions of the 1964 Wilderness Act. Assessment work on existing claims covering about 1,000 acres would not have a significant impact on wilderness values.

All Wilderness Alternative

All 9,056 acres of the Sweetwater Canyon would be recommended for wilderness designation.

Under this alternative, wilderness values would be protected in the entire WSA. The WSA would be withdrawn from mineral entry, so that future opportunities to explore for and develop locatable mineral resources would be forgone on 9,056 acres.

Lankin Dome

Proposed Action (No Wilderness)

Under the Proposed Action, the entire 6,316-acre Lankin Dome WSA would be recommended as non-suitable for wilderness designation.

Wilderness values in the entire WSA would not be assured long-term protection under the provisions of the 1964 Wilderness Act. Annual assessment work on one existing jade mining claim is the only management action anticipated; this action would not affect wilderness values. No other management actions are anticipated that would affect wilderness values in the WSA.

All Wilderness Alternative

All 6,316 acres of the Lankin Dome WSA would be recommended for wilderness designation.

Wilderness values would be given long term protection in the entire WSA. Because the entire WSA would be designated wilderness, all of its 6,316 acres would be withdrawn from mineral entry. Assessment work would continue on the existing jade claim. A slight increase in recreation use in the WSA and displacement of vehicle-dependent recreation onto adjacent private land would result in an additional ten contacts between recreationists and land-owners.

Split Rock

Proposed Action (No Wilderness)

Under the Proposed Action, the entire 12,789-acre Split Rock WSA would be recommended as nonsuitable for wilderness designation.

Wilderness values in the entire WSA would not be assured long-term protection under the provisions of the 1964 Wilderness Act. Annual assessment work on one existing jade mining claim is the only management action anticipated; this action would not affect wilderness values. No other management actions are anticipated that would affect wilderness values in the WSA.

All Wilderness Alternative

All 12,789 acres of the Split Rock WSA would be recommended for wilderness designation.

Wilderness values would be given long term protection in the entire WSA. Because the entire WSA would be designated wilderness, all of its 12,789 acres would be withdrawn from mineral entry. Assessment work would continue on the existing jade claim. A slight increase in visitation in the WSA and displacement of vehicle-dependent recreation onto adjacent private land would result in an additional 15 contacts between recreationists and landowners.

Savage Peak

Proposed Action (No Wilderness)

Under the Proposed Action, the entire 7,041-acre Savage Peak WSA would be recommended as non-suitable for wilderness designation.

Wilderness values in the entire WSA would not be assured long-term protection under the provisions of the 1964 Wilderness Act. However, no management actions are anticipated that would affect wilderness values in the WSA

All Wilderness Alternative

All 7,041 acres of the Savage Peak WSA would be recommended for wilderness designation.

Wilderness values would be given long term protection in the entire WSA. Because the entire WSA would be designated wilderness, all of its 12,789 acres would be withdrawn from mineral entry. A slight increase in visitation in the WSA and displacement of vehicle-dependent recreation onto adjacent private lands would result in an additional ten contacts between recreationists and landowners.

Miller Springs

Proposed Action (No Wilderness)

Under the Proposed Action, the entire 6,429-acre Miller Springs WSA would be recommended as non-suitable for wilderness designation.

Wilderness values in the entire WSA would not be assured long-term protection under the provisions of the 1964 Wilderness Act. Annual assessment work on one existing jade mining claim is the only management action anticipated; this action would not affect wilderness values. No other management actions are anticipated that would affect wilderness values in the WSA.

All Wilderness Alternative

All 6,429 acres of the Miller Springs WSA would be recommended for wilderness designation.

Wilderness values would be given long term protection in the entire WSA. Because the entire WSA would be designated wilderness, all of its 6,429 acres would be withdrawn from mineral entry. Assessment work would continue on the existing jade claim. A slight increase in recreation use in the WSA and displacement of vehicle-dependent recreation onto adjacent private lands would result in an additional five contacts between recreationists and landowners.

Copper Mountain WSA

Proposed Action (No Wilderness)

Under the Proposed Action, the entire 6,858-acre Copper Mountain WSA would be recommended as nonsuitable for wilderness.

Significant impacts relate to the retention of wilderness values and development of oil and gas resources. The entire WSA would be open to all forms of mineral entry and leasing. It is expected that a small oil and gas field, consisting of four producing wells, would be developed over the long term along the southern edge of the WSA. Because of anticipated oil and gas field development, naturalness and solitude would be lost on 840 acres.

SUMMARY

All Wilderness Alternative

All 6,858 acres of the Copper Mountain WSA would be recommended for wilderness designation.

Wilderness values would be retained over the entire 6.858-acre WSA. Because the entire WSA

would be designated wilderness, all of its 6,858 acres would be withdrawn from mineral entry and leasing. There would be no oil and gas field development. Future opportunities to explore for and develop mineral resources would be forgone on 6,858 acres.

ABBREVIATIONS

AUM Animal Unit Month

BLM Bureau of Land Management
CFR Code of Federal Regulations
EIS Environmental Impact Statement

FLPMA Federal Land Policy and Management Act (of 1976)

NEPA National Environmental Policy Act (of 1969)

NHT National Historic Trail

NSO No Surface Occupancy (a stipulation on an oil and gas lease)

NWPS National Wilderness Preservation System

ORV Off-road Vehicle

RMP Resource Management Plan (BLM land use plan under FLPMA)

SHPO State Historic Preservation Officer
USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

WGFD Wyoming Game and Fish Department

WSA Wilderness Study Area

CHAPTER 1

INTRODUCTION AND PLANNING PROCESS

PURPOSE AND NEED

This Wilderness Environmental Impact Statement (EIS) is being prepared in response to Section 603 of the Federal Land Policy and Management Act of 1976 (FLPMA). This law directs the Bureau of Land Management (BLM) to inventory, study, and report to Congress, through the Secretary of the Interior and the President, the public lands preliminarily determined to be suitable for inclusion in the National Wilderness Preservation System (NWPS).

The BLM has established the end of fiscal year 1991 as its goal for completing wilderness studies and reporting to the Secretary of the Interior the suitability or nonsuitability of all wilderness study areas (WSAs) for wilderness designation. This EIS satisfies the study requirements for six of the 40 BLM wilderness study areas in Wyoming.

According to FLPMA, the Secretary of the Interior must report his recommendations to the President by October 21, 1991. The President has until October 21, 1993, to send his recommendations to Congress. Only Congress has the authority to designate any of the study areas as wilderness or release them from study status as nonsuitable.

The purpose of this EIS is to analyze the effects on present or potential resource uses that would result from wilderness designation or nondesignation of six WSAs in central Wyoming. They are Sweetwater Canyon WSA, Copper Mountain WSA, and four WSAs collectively known as the Sweetwater Rocks WSAs: Lankin Dome, Split Rock, Savage Peak, and Miller Springs. The six WSAs considered in this EIS constitute approximately 2% of the public land in the Lander Resource Area and cover a total of 48,489 acres. Table 1 lists the areas and acreages under wilderness study in the Lander Resource Area.

TABLE 1

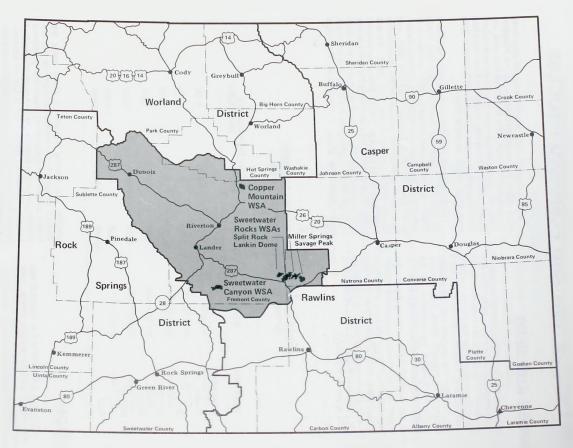
AREAS BEING STUDIED FOR WILDERNESS
IN THE LANDER RESOURCE AREA

		Total	Acres Recommended	
Study Area	Number	Acreage	Suitable	Nonsuitable
Sweetwater				
Canyon	WY-030-101	9,056	5,538	3,383
Lankin Dome	WY-030-120	6,316	0	6,316
Split Rock Savage	WY-030-122	12,789	0	12,789
Peak Miller	WY-030-123a	7,041	0	7,041
Springs Copper	WY-030-123b	6,429	0	6,429
Mountain	WY-030-111	6,858	0	6,858
Total		48,489	5,538	42,816

LOCATION

The six WSAs being studied are in Fremont and Natrona counties, Wyoming. Lankin Dome, Split Rock, Miller Springs, and Savage Peak WSA are all about 60 miles west southwest of Lander. The Sweetwater Canyon is about 40 miles south southwest of Lander, and the Copper Mountain WSA is about 50 miles northeast of Lander (see map 1). The topo-

graphic and natural features in these areas are diverse, ranging from mountains of granite that are nearly barren of vegetation to sagebrush-grassland prairies, to juniper woodlands, to a deep and rugged canyon. Elevations range from a low of approximately 6,000 feet on the Sweetwater River near Devil's Gate to more than 8,000 feet on the summit of McIntosh Peak, the highest point in the Sweetwater Rocks WSAs.



Map 1 General Location Wilderness Study Areas

ENVIRONMENTAL ISSUE IDENTIFICATION/SCOPING

The scoping process for the Lander Wilderness Environmental Impact Statement (EIS) encompasses issues identified by the BLM staff, the public, and government agencies at all levels. Scoping occurred throughout the development of the Lander Resource Management Plan (USDI, BLM 1986); numerous meetings were held with individuals, interest groups, industry representatives, and government agencies.

The draft Lander Wilderness EIS was released for public review and comment in November 1985. The formal comment period was open until mid-February 1986. Public hearings were held on December 11 and 12, 1985, in Dubois, Wyoming and Lander, Wyoming, respectively.

During the scoping process, consultation continued with the Wyoming State Historic Preservation Officer (SHPO) concerning the presence or absence of sites in the WSAs that would be eligible for nomination for listing on the "National Register of Historic Places." Consultation with the U.S. Fish and Wildlife Service concerning the threatened or endangered species has occurred. The environmental issues selected for analysis in this EIS follows.

Issues Selected for Analysis

Impacts on Wilderness Values

The wilderness values of naturalness, solitude, and primitive recreation could benefit from wilderness designation. The same values may be adversely affected by uses and actions that would occur should the WSAs not be designated wilderness. The degree to which these values would or would not be preserved is an issue for analysis in the EIS.

Impacts on the Development of Energy and Mineral Resources

Wilderness designation could affect the ability to explore for and develop mineral resources by withdrawing designated lands from mineral leasing and entry. The effect of wilderness designation on the development of mineral resources is an issue for analysis in the EIS.

Impacts on Recreation and Off-Road Vehicle Use in the Sweetwater Canyon WSA and the Copper Mountain WSA

Wilderness designation would eliminate the use of recreational off-road vehicles (ORVs) in the Sweetwater Canyon WSA. Because most ORV use in the WSA is in support of other activities such as hunting and fishing, elimination of vehicles in the WSA could affect the availability of other recreation opportunities in the WSA and shift ORV uses currently occurring in the WSA to adjacent public and private lands (see Map 2 in Chapter 2). Elimination of ORVs might also help preserve opportunities for nonmotorized forms of recreation. The impact of wilderness designation on recreation and ORV use in the vicinity of the Sweetwater Canyon WSA is an issue for analysis in this EIS.

Impacts on Local Ranching Operations

If the WSAs in the Sweetwater Rocks complex (Lankin Dome, Split Rock, Miller Springs, and Savage Peak WSAs) were designated wilderness. vehicle-dependent recreation use could be displaced onto adjacent private lands that surround the WSAs (illustrated on Map 2 in Chapter 2) as a result of the ORV elimination inherent in a wilderness designation. In addition, it is estimated that nonmotorized forms of recreation would increase slightly (approximately 5%) after designation of the WSAs as wilderness. More people would become aware of the areas because they lie adjacent to a major tourist route to Yellowstone National Park. The areas would probably be portrayed in promotional materials to entice travelers to use this route to get to the national park. These two factors could result in increased contacts between adjacent landowners and recreationists seeking permission to cross private land or in trespass. This would, in turn, be disruptive to the adjacent landowner's ranching operation. Therefore, the effect of wilderness designation of these WSAs on recreation use and the impacts to adjacent landowners is an issue for analysis in this EIS.

Issues Not Selected for Analysis

The following issues were identified in scoping, but were not selected for detailed analysis in the EIS. The reasons for setting the issues aside are discussed below.

PLANNING PROCESS

Impacts on Livestock Operations

Concerns were raised that wilderness designation could reduce or eliminate livestock grazing in the WSAs. For operators in the four Sweetwater Rocks WSAs and the Copper Mountain WSA, no change is anticipated due to wilderness designation. BLM's management of grazing in these areas would essentially be the same, with or without wilderness designation. Therefore, this issue was not selected for further analysis.

In the Sweetwater Canyon WSA, conflicts between recreation users and livestock in the canyon bottom may result in more BLM management concern. Recreationists may want a total elimination of livestock from the canyon, or may want a change in the season of use to avoid the heavily used summer months. Livestock operators may want the BLM to significantly reduce visitation by using some type of limited quota permit system. Given that visitor use is not predicted to increase substantially and livestock numbers are not likely to change due to wilderness designation, the level of conflict is not expected to rise as a direct result of either designation or nondesignation. As a result, this issue was not selected for analysis.

However, because livestock grazing is a major activity in all of the WSAs, livestock management in the WSAs will be described for each alternative in Chapter 2 and again in Chapter 3.

Impacts on Threatened or Endangered Species

Wildlife and vegetation inventories and consultation with the U.S. Fish and Wildlife Service indicate that no threatened or endangered species are known to occur in the WSAs. Therefore, this issue was dropped from further consideration.

Impacts on Prehistoric Resources

Consultation with the State Historic Preservation Office during scoping and review of existing inventory information indicate that the WSAs do contain prehistoric resource sites. The prehistoric sites within the WSAs that appear to be eligible for inclusion on the National Register would be protected under current law with or without wilderness designation. Prior to any surface disturbing activity, an on-site cultural resource survey of the project area would be conducted and adverse impacts to significant cultural resource sites would be mitigated. Because developments even under the No Wilderness

Alternative would not cause significant impacts to the sites, this issue was dropped from further analysis.

Impacts on Recreation in the Sweetwater Rocks WSA Complex

The issue of impacts on recreation from wilderness designation or nondesignation in the Sweetwater Rocks WSA complex (Lankin Dome, Split Rock, Savage Peak, and Miller Springs) was not selected for analysis. Impacts on recreation use in these WSAs are described under "Impacts on Local Ranching Operations." The two issues are interrelated in that projected changes in use patterns and recreation management actions affect both, but the impacts are best described under "Impacts on Local Ranching Operations." As a result, this issue was not selected for analysis. However, recreation management will be described for each alternative in Chapter 2 and again in Chapter 3.

Impacts on Historic Trails

Concerns were raised by the public about the effects that wilderness designation or nondesignation may have on the protection of historic trails within or adjacent to the WSAs. Although the Oregon and Mormon Pioneer National Historic Trails (NHT) and the proposed Pony Express NHT make up a small portion of the Sweetwater Canyon WSA's northern boundary (less than two miles), they do not enter the WSA. Similarly, none of the historic trails enter the Lankin Dome, Split Rock, Savage Peak, or Miller Springs WSAs, nor do the trails help form the WSAs' boundaries. Management of the NHTs would remain unchanged regardless of whether or not any of the WSAs were designated wilderness.

Further, the two Oregon Trail withdrawals (one in Sweetwater Canyon WSA for the 1824 South Pass discovery brigade camp, and the other in Split Rock WSA for the Split Rock National Register Site) are both closed to all forms of mineral entry and leasing, and this would remain the same with or without wilderness.

Because the NHTs and their related sites would be unaffected and remain unchanged by wilderness designation or nondesignation, this issue was dropped from further analysis.

Impacts on Forest Management

None of the WSAs described in this EIS contain commercial timber resources or forested lands. Therefore, this issue was dropped from further consideration.

PLANNING PROCESS

Impacts on Water Quality in the Sweetwater Canyon WSA

Concerns were raised regarding how water quality would be affected by wilderness designation or non-designation in the Sweetwater Canyon WSA. This was dropped from analysis in the EIS because the primary influence on water quality in this WSA (live-stock grazing) would not vary significantly with either designation or nondesignation. Other activities, such as mining claim assessment work, would be of such small scale and would affect such a small area that their influence on water quality would be negligible.

Impacts on Wildlife and Fisheries

Concerns regarding impacts of wilderness designation or nondesignation on wildlife and fisheries were raised during the formal comment period. This issue was dropped from further analysis in the EIS because projected developments in the six WSAs would not result in any significant change to any specific wildlife population or fishery, with or without wilderness designation. However, because of the public concern regarding wildlife and fisheries in the WSAs, wildlife and fisheries management will be discussed for each WSA in Chapter 2 and again in Chapter 3 (fisheries for Sweetwater Canyon only).

DEVELOPMENT OF ALTERNATIVES

To analyze the six WSAs adequately for wilderness suitability, the BLM developed a set of alternatives that were considered reasonable for each WSA. In each WSA, two required alternatives, All Wilderness and No Wilderness, were analyzed.

For Sweetwater Canyon, a Partial Wilderness alternative was analyzed. The Partial Wilderness alternative, which is the Proposed Action, would resolve some of the conflicts of vehicle access and would preserve the canyon itself as wilderness. This alternative would preserve as wilderness that part of the WSA generally inaccessible to vehicles. The alternative would help resolve the management problem of unauthorized vehicle use in designated wilderness by eliminating that portion where vehicle use is not easily controllable by natural terrain. Alternatives include: (a) No Wilderness; and (b) All Wilderness.

The alternatives considered for Lankin Dome, Split Rock, Savage Peak, and Miller Springs WSAs were All Wilderness and No Wilderness which is the Proposed Action for these WSAs.

In the Copper Mountain WSA, only two alternatives were considered reasonable, All Wilderness and No Wilderness. The No Wilderness alternative is the Proposed Action for the Copper Mountains WSA.

Partial wilderness alternatives that would recommend for wilderness something less than the entire acreage of the Lankin Dome, Split Rock, Savage Peak, Miller Springs, and Copper Mountain WSAs were considered but not analyzed as separate alternatives. Reducing the size would not significantly reduce resource conflicts, improve the quality of the wilderness values, or improve the WSAs' manageability while maintaining essential wilderness attributes.

However, when the four Sweetwater Rocks WSAs are viewed in combination, Congress could choose to designate any number of them as wilderness. Thus the No Wilderness and All Wilderness alternatives presented for each WSA in this EIS do represent several possible Partial Wilderness alternatives that are available to Congress.

CHAPTER 2

PROPOSED ACTION AND ALTERNATIVES

Since the pattern of future actions cannot be predicted with certainty, assumptions must be made to allow impact analysis to be performed. These assumptions are the basis of the scenarios developed in this impact statement. They are not management plans or proposals, but are believed to represent reasonable patterns of activities which could occur as a result of this action.

SWEETWATER CANYON

Proposed Action (Partial Wilderness)

Under the Partial Wilderness alternative, a 5,538-acres portion of the 9,056 acres of Sweetwater Canyon WSA would be recommended for wilderness designation (see Map 2). The boundary has been changed from the draft EIS to follow legal subdivisions. This reduced the area by 222 acres. The area proposed for wilderness designation would include the "core area," or the canyon itself. The remaining 3,518 acres of the WSA would be managed for multiple uses other than wilderness.

Livestock Grazing Management

Livestock would continue to be managed as described in the Green Mountain rangeland program summary (USDI, BLM 1983a). There are two grazing allotments in the Sweetwater Canyon WSA, Green Mountain Common (allotment 2001) and Silver Creek (allotment 1903). These two allotments produce 597 animal unit months (AUMs) of forage in the 5,538 acres proposed for designation and 362 AUMs in the 3,518 acres proposed for nonwilderness.

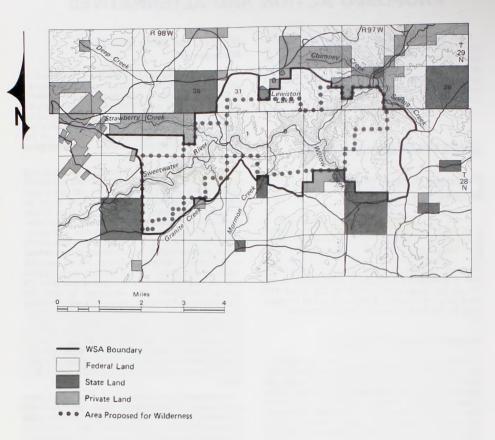
No management actions are proposed for the foreseeable future in this alternative that would change kind of livestock, numbers, or season of use. No range improvement projects are planned for the area. No motorized equipment would be allowed in the portion of the WSA recommended for wilderness designation.

Oil, Gas, and Other Minerals Management

There is no potential for oil and gas in the Sweet-water Canyon WSA. There are no oil and gas leases in the WSA. No leasing, exploration, or development would be allowed on the 5,538 acres recommended for wilderness. The remaining 3,518 acres would be open to leasing according to standard protection requirements (see Appendix C). Because of the area's lack of potential for oil and gas, no exploration is expected.

No locatable mineral development is anticipated in the Sweetwater Canyon WSA. There are claims covering about 720 acres of the 5,538 acres proposed for wilderness. Before any work could be done on these claims, the BLM would initiate validity examinations to determine if any had a valid discovery on or before the date that the area was designated wilderness. It is assumed that the claims would hold valid discoveries and would thus remain as valid claims. However, based on known resource values in this portion of the WSA, it is anticipated that the only activity on these claims would be the annual assessment work necessary to keep the claims current. For placer claims, this would include activities such as panning and using small, handoperated sluice boxes. For lode claims, activities would include hand-sampling of small amounts of ore for assessment. No vehicular access or motorized equipment would be necessary. No large-scale development is expected. Annual assessment work would disturb a maximum of 5 acres over the long. term.

On the basis of current information, large-scale exploration and development of locatable minerals is not anticipated on the 3,518 acres recommended for nonwilderness; however, the area would continue to remain open to mineral entry and mining under existing mining law. About 280 acres are covered by mining claims at present in the portion recommended for nonwilderness. Although no development of these claims is anticipated, annual assessment work such as that described earlier would disturb a maximum of 5 acres over the long term.



Recreation Management

Under the Proposed Action, the 5,538 acres recommended for wilderness would be closed to off-road vehicles (ORVs), and motorized forms of recreation would be excluded. Approximately 2 miles of two-track access would be closed. The portion of the WSA recommended for wilderness would be open to other recreation activities, including hunting, fishing, camping, photography, and sightseeing. Recreational use for these activities is estimated to be 850 visitor days annually. While projections indicate that use may increase slightly, it would remain below 1,000 visitor days annually for the foreseeable future.

The remaining 3,518 acres would provide for dispersed recreation such as hunting, fishing, and hiking. ORV travel would be limited to 2 miles of existing roads and trails, as outlined in the Lander RMP/EIS (USDI, BLM 1986). Recreational ORV use in this portion of the WSA is estimated to be 150 visitor days annually. Projections indicate that recreational ORV use would increase slightly but would remain below 250 visitor days annually for the foreseeable future.

Other recreation activities such as hunting, camping, photography, and sightseeing would continue in this portion of the WSA. Use for these activities is estimated to be 400 visitor days annually. Projections indicate that use would increase slightly, but would remain below 750 visitor days annually for the foreseeable future.

Wildlife and Fisheries Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the Wyoming Game and fish Department (WGFD). Fisheries would be managed according to WGFD regulations. No other wildlife or fisheries management actions are planned for the Sweetwater Canyon WSA

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under the Proposed Action that would require cultural resource investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

No Wilderness Alternative

Under this alternative, none of the 9,056 acres would be recommended for wilderness designation. The land would be open for multiple-use management.

Livestock Grazing Management

Management of grazing would be the same as in the Proposed Action, with portions of two allotments in the WSA providing 959 AUMs of grazing. No management actions are proposed at this time that would change the kinds of livestock, numbers, or seasons of use. Motorized equipment would be allowed, with vehicle use restricted to existing trails.

Oil, Gas, and Other Minerals Management

Approximately 5,000 acres (generally the canyon itself) would be subject to a no surface occupancy (NSO) restriction for purposes of oil and gas leasing. On the basis of information currently available, it appears that the area has no potential for the occurrence of oil and gas; therefore, oil and gas exploration or field development is not anticipated. Outside of the NSO areas, oil and gas leasing would continue under the standard protection requirements (see appendix C). Accordingly, surface disturbance would be prohibited in sensitive areas such as live waters or on slopes in excess of 25%. Other areas would be available for exploration by drilling, but no exploratory drilling would be expected.

About 5,000 acres of the WSA would be subject to a locatable mineral withdrawal. There are about 720 acres covered by claims in this area. Before any work could be done on these claims, the BLM would initiate validity examinations to determine if any had a valid discovery on or before the date that the area was designated wilderness. It is assumed that the claims would hold valid discoveries and would thus remain as valid claims, subject to regulation under 43 CFR 3809. However, based on known resource values in this portion of the WSA, it is anticipated that the only activity on these claims would be the annual assessment work (such as that described earlier) necessary to keep the claims current. No largescale development is expected. Annual assessment work would disturb a maximum of 5 acres over the long term.

On the 4,056 acres that would remain open to mineral entry, large-scale development is not anticipated. There are about 280 acres covered by claims in this portion of the WSA. As required by 43 CFR 3809 regulations, a plan of operations would be required for all surface disturbance in excess of five acres; a notice of intent would be required for activities creating disturbance of five acres or less. Because of the quantity and quality of material in this portion of the WSA, activity on these claims is anticipated to be only the minimum assessment work necessary to keep the claims current. Annual assessment work would disturb a maximum of 5 acres over the long term.

Recreation Management

The ORV designation outlined in the Lander RMP/EIS (USDI, BLM 1986) would remain in effect for the Sweetwater Canyon, and ORV travel would be limited to existing roads and trails (about 3½ miles). Recreational ORV use for the entire WSA is estimated to be 250 visitor days annually. Projections indicate that use would increase slightly but would remain below 300 visitor days annually for the foreseeable future.

The WSA would be open to other recreation activities besides ORV use, including hunting, fishing, camping, photography, and sightseeing. Visitor use for these activities is estimated to be 1,250 visitor days. Projections indicate that use would increase slightly but would remain below 1,750 visitor days annually for the foreseeable future.

Wildlife and Fisheries Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. Fisheries would be managed according to WGFD regulations. No other wildlife or fisheries management actions are planned for the Sweetwater Canyon WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

All Wilderness Alternative

Under the All Wilderness alternative, all of the Sweetwater Canyon WSA (9,056 acres) would be recommended for wilderness designation.

Livestock Grazing Management

Livestock would continue to be managed as described in the Green Mountain Rangeland Program Summary (USDI, BLM 1983). Portions of two grazing allotments in the Sweetwater Canyon WSA, Green Mountain Common (2001) and Silver Creek (1903), produce 959 AUMs for forage in the 9,056 acres of the WSA. No management actions are proposed at this time in this alternative that would change kind of livestock, numbers, or season of use. No range improvement projects are planned for the area. No motorized equipment would be allowed in the area.

Oil, Gas, and Other Minerals Management

Under this alternative, the entire 9,056 acres of the Sweetwater Canyon WSA would be closed to oil and gas leasing. There are about 1,000 acres of lode and placer claims (15 lode and 6 placer) in the WSA. Before any work could be done on these claims, the BLM would initiate mineral validity examinations to determine if any had a valid discovery on or before the date that the area was designated wilderness. It is assumed that the claims would hold valid discoveries and would thus remain as valid claims, subject to regulation under 43 CFR 3809. However, based on known resource values in the WSA, it is anticipated that the only activity on these claims would be the annual assessment work (such as described earlier) necessary to keep the claims current. No large-scale development is expected. No vehicular access would be needed. Annual assessment work would disturb a maximum of 10 acres over the long term.

Recreation Management

Under this alternative, the WSA would provide for primitive forms of recreation such as hunting, fishing, and backpacking. The area would be closed to ORV use, and motorized forms of recreation would be excluded. About 3½ miles of trail would be closed to vehicles under this alternative.

The WSA would be open to other recreation activities, such as hunting, fishing, camping, sightseeing, and photography. Visitation for these activities was estimated to be 1,250 visitor days in 1983. Projections indicate that use would increase slightly but would remain below 1,750 visitor days annually for the foreseeable future.

Wildlife and Fisheries Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. Fisheries would be managed according to WGFD regulations. No other wildlife or fisheries management actions are planned for the Sweetwater Canyon WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

LANKIN DOME

Proposed Action (No Wilderness)

Under the Proposed Action, the Lankin Dome WSA would be recommended for nonwilderness uses. No special legislative protection would be given to the 6,316 acres of the Lankin Dome WSA (See Map 3).

Oil, Gas, and Other Minerals Management

Under the Proposed Action, the entire WSA would be open to mineral entry and leasing. There are two oil and gas leases in the Lankin Dome WSA. On the basis of current information, there is no potential for the occurrence of oil and gas in the WSA. Therefore, there is no likelihood of exploration or development.

The entire WSA would continue to be open to locatable mineral entry under the General Mining Law. The only claim that has been filed in this WSA is on a jade occurrence. Small-scale development of this claim would be expected to result in less than 5 acres of surface disturbance over the long term. Prospecting and exploration for other minerals in the WSA have been low to nonexistent, and no exploration or development is expected in the foreseeable future.

Livestock Grazing Management

The Lankin Dome WSA would continue to provide 373 AUMs for livestock use in portions of five allotments. No new range improvements are planned. The use of motorized vehicles would continue for the purpose of livestock management.

Recreation Management

Under the Proposed Action, ORV travel would be limited to 2½ miles of existing trails. Recreational ORV use is estimated at 50 visitor days per year and would remain at that level for the next ten years.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated withhunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed hiking or backpacking trails exist in the WSA, and none are planned. Recreation use would remain stable at 200 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under the Proposed Action that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

All Wilderness Alternative

Under the All Wilderness alternative, all of the Lankin Dome WSA (6,316 acres) would be recommended for designation as wilderness.

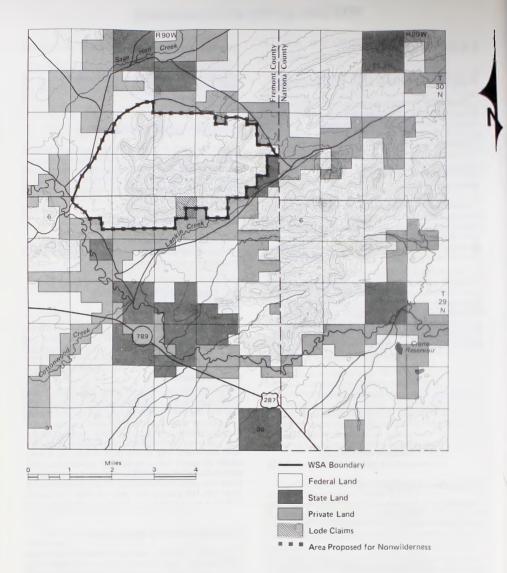
Oil, Gas, and Other Minerals Management

The entire WSA would be withdrawn from oil and gas leasing. There are no pre-FLPMA oil and gas leases in the WSA. The post-FLPMA leases in the WSA are subject to the Wilderness Protection Stipulation (see appendix A). No new mineral leases would be allowed.

Prior to commencing work on the existing jade claim in the WSA, a validity examination must show that the claim holds sufficient quantity and quality of valuable jade so that a prudent person could expect a reasonable return on his or her investment. It is assumed that the jade claim would contain a valid discovery and would thus remain as a valid claim. However, the only activity expected on this claim would be the annual assessment work such as hand-sampling and extraction of very small amounts (less that 100 pounds per year) of jade. This would disturb a maximum of five acres over the long term.

Livestock Grazing Management

The Lankin Dome WSA would continue to provide 373 AUMs for livestock use in portions of five grazing allotments. No new improvements are planned. The use of motorized vehicles to manage livestock would be precluded.



Map 3 Proposed Action (Nonwilderness) Lankin Dome

Recreation Management

The WSA would be closed to all off-road vehicle use. Motorized forms of recreation would be excluded; 2½ miles of two-track access would be closed.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated withhunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. It is estimated that there would be a slight (5%) increase in recreation use after designation. Projections indicate that recreation use would increase slightly to 210 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

SPLIT ROCK

Proposed Action (No Wilderness)

Under the Proposed Action, the Split Rock WSA would be recommended for nonwilderness uses. No special legislative protection would be given to the 12,789 acres of the Split Rock WSA (See Map 4).

Oil, Gas, and Other Minerals Management

The Split Rock WSA would be open to oil and gas leasing. On the basis of current information, there is no potential for the discovery of oil and gas in the Split Rock WSA. Therefore, the likelihood of exploratory drilling is considered nil, and the anticipated use of the lands would not be expected to differ from past uses. No exploratory drilling would occur.

Under the Proposed Action, the WSA would remain open to locatable mineral entry under the

General Mining Law. One claim has been filed in this WSA on an area of jade occurrence. Small-scale development of this claim would be expected to result in less than 20 acres of surface disturbance over the long term. Prospecting and exploration for other minerals in the WSA have been low to nonexistent, and no exploration or development is expected in the foreseeable future.

Livestock Grazing Management

The Split Rock WSA would continue to provide 1,141 AUMs for livestock use in portions of four allotments. No new range improvements are planned. The use of motorized vehicles would continue for the purpose of livestock management.

Recreation Management

Under the Proposed Action, ORV travel would be limited to 1½ miles of existing roads and trails. Recreational ORV use is estimated to be 250 visitor days per year and would remain at this level for the next ten years.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated withhunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. Recreational use for these activities would remain below 1.500 visitor days for the next ten years.

Wildlife Management

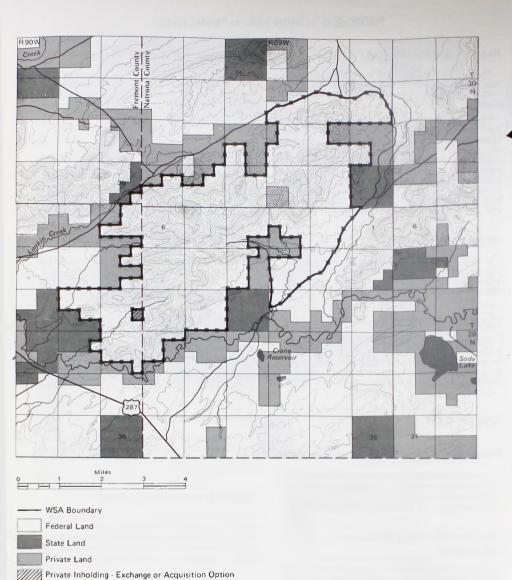
Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under the Proposed Action that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

All Wilderness Alternative

Under the All Wilderness alternative, all 12,789 acres of the Split Rock WSA would be recommended for designation as wilderness and would be given the special legislative protection afforded to designated wilderness



■ ■ Area Proposed for Nonwilderness

Lode Claims

Oil, Gas and Other Minerals Management

The entire WSA would be withdrawn from oil and gas leasing. There are no pre-FLPMA oil and gas leases in the WSA. The two post-FLPMA leases in the WSA are subject to the Wilderness Protection Stipulation (see Appendix A). No new oil and gas leases would be allowed.

Prior to commencing work on the existing jade claim in the WSA, a validity examination must show that the claim holds sufficient quantity and quality of valuable jade to that a prudent person could expect a reasonable return on his or her investment. It is assumed that the jade claim would contain a valid discovery and would remain as a valid claim. However, it is anticipated that the only activity expected on this claim would be the annual assessment work such as hand-sampling and extraction of very small amounts of jade (less than 100 pounds per year). This would disturb a maximum of 5 acres over time.

Livestock Grazing Management

The Split Rock WSA would continue to provide 1,141 AUMs for livestock use in portions of four grazing allotments. No new improvements are planned. The use of motorized vehicles to manage livestock would be precluded.

Recreation Management

The WSA would be managed to provide for only nonmotorized forms of recreation such as hunting, rock climbing, and backpacking. The WSA would be closed to all recreational off-road vehicle use.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreational facilities or trails exist in the WSA, and none are planned. It is estimated that there would be a slight (5%) increase in recreation use after designation. Projections indicate that recreation use would increase slightly to 1,575 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

SAVAGE PEAK

Proposed Action (No Wilderness)

Under the Proposed Action, the Savage Peak WSA would be recommended for nonwilderness uses. No special legislative protection would be given to any of the 7,041 acres of the Savage Peak WSA (See Map 5).

Oil, Gas and Other Minerals Management

The Savage Peak WSA would be open to oil and gas leasing. On the basis of current information, there is no potential for the occurrence of oil and gas in the WSA. Therefore, there is no likelihood of exploratory drilling. There are no oil and gas leases in the Savage Peak WSA. Under the Proposed Action, the WSA would continue to be open to mineral entry under the General Mining Law. Prospecting and exploration for locatable minerals in the WSA have been low to nonexistent. There are no mining claims in the WSA. Therefore, no exploration or development is expected in the foreseeable future.

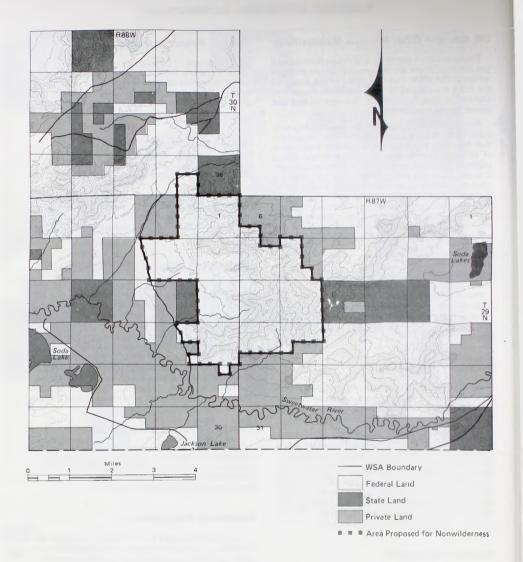
Livestock Grazing Management

The Savage Peak WSA would continue to provide 765 AUMs for livestock use in portions of three allotments. No new range improvements are planned. The use of motorized vehicles would continue for the purposes of livestock management.

Recreation Management

Under the Proposed Action, ORV travel would be limited to 1 mile of existing trails. Recreational ORV use of this WSA is estimated at 250 visitor days annually and would remain at this level for the next ten years.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated with hunting), camping (gen-



Map 5 Proposed Action (Nonwilderness) Savage Peak

erally associated with hunting), photography, and sightseeing. No recreation facilities or trails exist in the WSA, and none are planned. Recreation use would remain below 1,000 visitor days for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under the Proposed Action that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

All Wilderness Alternative

Under the All Wilderness alternative, all 7,041 acres of the Savage Peak WSA would be recommended for designation as wilderness and would be given the special legislative protection afforded to designated wilderness.

Oil, Gas and Other Minerals Management

The entire WSA would be withdrawn from all forms of mineral entry and leasing. There are no oil and gas leases in the Savage Peak WSA. No new mineral leases would be allowed. As of 1988, there were no mining claims in this WSA; therefore, no activity is expected.

Livestock Grazing Management

The Savage Peak WSA would continue to provide 756 AUMs for livestock use in portions of three grazing allotments. No new range improvements are planned. The use of motorized vehicles to manage livestock would be eliminated.

Recreation Management

The WSA would be managed to provide for only nonmotorized forms of recreation such as hunting and backpacking. The WSA would be closed to all off-road vehicle use. One mile of two-track access would be closed.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. It is estimated that recreation use would increase slightly (5%) after designation. Projections indicate that recreational sue would increase slightly to 1,050 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

MILLER SPRINGS

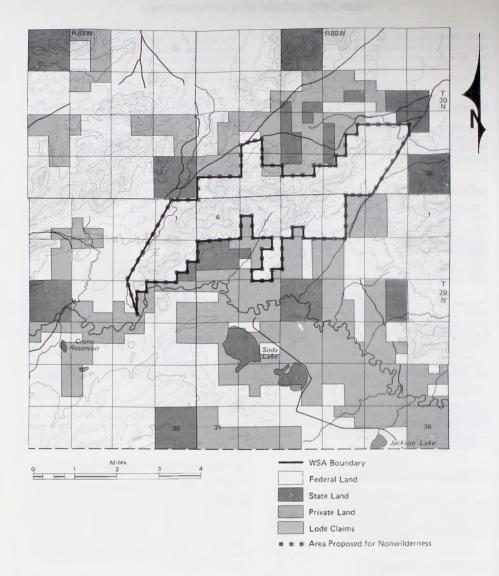
Proposed Action (No Wilderness)

Under the Proposed Action, the Miller Springs WSA would be recommended for nonwilderness uses. No special legislative protection would be given to the 6,429 acres comprising the Miller Springs WSA (See Map 6).

Oil, Gas and Other Minerals Management

The Miller Springs WSA would be open to oil and gas leasing. There are no oil and gas leases in the Miller Springs WSA. On the basis of current information, there is no potential for the occurrence of oil and gas in the WSA. Therefore, the likelihood of exploratory drilling is considered nil, and the anticipated use of the lands would not be expected to differ from past uses. Therefore, no exploratory drilling is anticipated.

Under the Proposed Action, the WSA would remain open to locatable mineral entry under the General Mining Law. Prospecting and exploration for other minerals in the WSA have been low to non-existent, and no exploration or development is expected in the foreseeable future.



Map 6 Proposed Action (Nonwilderness) Miller Springs

Livestock Grazing Management

The Miller Springs WSA would continue to provide 756 AUMs for livestock use in portions of two allotments. No new range improvements are planned. The use of motorized vehicles would continue for the purposes of livestock management.

Recreation Management

Under the Proposed Action, ORV travel would be limited to 2 miles of existing trails. Recreational ORV use of this WSA is estimated at 250 visitor days annually and would remain at this level for the next ten years.

The entire WSA would be open for recreation activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. Recreation use is currently estimated to be 250 visitor days annually and would remain at this level for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under the Proposed Action that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

All Wilderness Alternative

Under the All Wilderness alternative, all 6,429 acres of the Miller Springs WSA would be recommended for designation as wilderness and would be given the special legislative protection afforded to designated wilderness.

Oil, Gas and Other Minerals Management

The entire WSA would be withdrawn from oil and gas leasing. There is no potential for the discovery of oil and gas. There are no oil and gas leases in the Miller Springs WSA, and no new leases would be allowed.

Prior to commencing work on the existing jade claim in the WSA, a validity examination must show that the claim holds sufficient quantity and quality of valuable jade that a prudent person could expect a reasonable return on his or her investment. It is assumed that the jade claim would contain a valid discovery and would thus remain as a valid discovery. The only activity expected on this claim would be the annual assessment work such as hand-sampling and extraction of very small amounts of jade (less than 100 pounds per year). This would disturb less than ten acres over the long term.

Livestock Grazing Management

The Miller Springs WSA would continue to provide 756 AUMs for livestock use in portions of two grazing allotments. No new range improvements are planned. The use of motorized vehicles to manage livestock would be eliminated.

Recreation Management

The WSA would be managed to provide for only nonmotorized forms of recreation such as hunting and backpacking. The WSA would be closed to all off-road vehicle use. Two miles of two-track access would be closed. Motorized forms of recreation would be excluded.

The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. It is estimated that recreation use would increase slightly (5%) after the designation. Projections indicate that recreation use would increase slightly to 265 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigations (inventory and evaluation of sites) or mitigation of adverse effects on sites.

COPPER MOUNTAIN

Proposed Action (No Wilderness)

Under the Proposed Action, none of the Copper Mountain WSA (6,858 acres) would be recommended for wilderness (see Map 7).

Oil, Gas and Other Minerals Management

All 6,858 acres of the Copper Mountain WSA would be open to oil and gas leasing under this alternative. On the basis of drilling history in the area and the high and moderate ratings for the potential for discovery of oil and gas resources, the development of a field with four wells within the WSA boundary is projected. The standard spacing acreage for this type of field would be 640 acres. Because of the rugged terrain and the increasing depth in lesser potentially productive formations to the north, development is projected only in the southern portion of the WSA. Approximately 40 acres of disturbance would be expected from a field of four wells.

Future oil and gas leases issued in the WSA would be conditioned with standard protection requirements, which are intended to protect watershed and wildlife values (see Stipulations 1 and 2, Appendix C).

Most of the WSA would be subject to application of the standard stipulation that does not allow surface-disturbing activities on slopes of more than 25%. Approximately 1,400 acres in the northern part of the WSA would be conditioned with seasonal restrictions on surface-disturbing activities from December 15 to April 15 so that crucial deer winter range would be protected.

The potential exists in the WSA for the discovery of chemical grade limestone and uranium deposits. However, the abundance of limestone elsewhere in the Lander Resource Area and the current poor market for uranium oxide lend little support to the development of these mineral resources in the foreseeable future. Therefore, no development is anticipated. Nevertheless, the WSA would be open to prospecting, exploration and mining.

There are five lode claims within the WSA along the western boundary and adjacent to the Wind River Reservation. Large-scale development of these claims is not expected. The only activity expected on these claims would be the necessary annual assessment work such as hand-sampling. This would disturb less than 10 acres over the long term.

Livestock Grazing Management

The Copper Mountain WSA would continue to provide 635 AUMs for livestock use in portions of two allotments. No new range improvements are planned. The use of motorized vehicles would continue for the purpose of livestock management.

Recreation Management

Under the Proposed Action, the area would be managed for dispersed recreation such as hunting and hiking. The public would continue to have access to the area, but only primitive camping would be available.

There are no vehicle trails in the WSA. The projected two miles of roads that would be associated with oil and gas exploration would allow access into the southern part of the WSA. ORV travel would be limited to these exploration roads. Even after construction of the roads, recreational ORV use would remain below 50 visitor days annually for the next ten years.

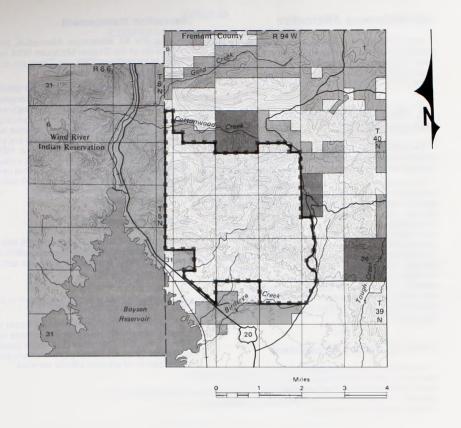
The entire WSA would be open for other recreation activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreation facilities or developed trails exist in the WSA, and none are planned. Recreation use would remain below 100 visitor days for the next ten years. Projections indicate that it is reasonable to expect that such use for these activities would increase slightly but remain below 200 visitor days annually for the next ten years.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Cultural resource investigations (inventory and evaluation of sites) would occur in conjunction with the development of the small oil and gas field projected under the Proposed Action. Overall, cultural resource investigations would occur on approximately 40 acres. Any sites or features found in the investigations would subsequently be avoided or adverse impacts would be mitigated by recordation and curation of the features. Beyond this area, management of cultural resources would be custodial in nature; no specific management actions are planned.





All Wilderness Alternative

Under the All Wilderness Alternative, the entire 6,858 acres of the Copper Mountain WSA would be recommended for designation as wilderness and would be given the special legislative protection afforded to designated wilderness.

Oil, Gas, and Other Minerals Management

The entire WSA would be withdrawn from oil and gas leasing and consequently there would be no development or production of oil and natural gas.

There are five existing lode claims in the Copper Mountain WSA. Prior to commencing work on these claims in the WSA, a validity examination must show that the claim holds sufficient quantity and quality of valuable uranium resources so that a prudent person could expect a reasonable return on his or her investment. It is assumed that the claims would contain valid discoveries and would thus remain as valid claims. The only activity expected on these claims would be the annual assessment work such as hand-sampling. No vehicular access or motorized equipment would be necessary. It is anticipated that these activities would disturb less than ten acres over the long term.

Livestock Grazing Management

The Copper Mountain WSA would continue to provide 635 AUMs for livestock use in portions of two grazing allotments. No new range improvements are planned. The use of motorized vehicles to manage livestock would be eliminated.

Recreation Management

Under the All Wilderness Alternative, the entire 6,858 acres of the Copper Mountain WSA would be closed to recreational ORV use. There are no vehicle trails in the WSA at present.

The entire WSA would be open for other recreational activities, including hunting, horseback riding (generally associated with hunting), camping (generally associated with hunting), photography, and sightseeing. No recreational facilities or developed trails exist in the WSA, and none are planned. Recreational use would remain below 100 visitor days for the next ten years. Projections indicate that it is reasonable to expect that recreational use would increase slightly, but remain below 200 visitor days annually for the foreseeable future.

Wildlife Management

Monitoring wildlife habitat conditions and animal populations would continue in cooperation with the WGFD. No other wildlife management actions are planned for this WSA.

Cultural Resource Management

Management of cultural resources would be custodial in nature. No management actions are projected under this alternative that would require cultural investigation (inventory and evaluation of sites) or mitigation of adverse effects on sites.

PROPOSED ACTION AND ALTERNATIVES

TABLE 2A

COMPARATIVE ANALYSIS OF IMPACTS Sweetwater Canyon WSA

Resource	Proposed Action (Partial Wilderness)	Alternative 1 (No Wilderness)	Alternative 2 (All Wilderness)
Wilderness Values	Assessment work on 1,000 acres of mining claims would disturb less than 10 acres over the long term. Impacts to naturalness would be negligible. Wilderness values enhanced on 5,538 acres due to elimination of ORVs; solitude and primitive recreation adversely affected by continued ORV use on 3,518 acres, but impact is minimal because ORV use levels are low.	Assessment work on 1,000 acres of mining claims would disturb less than 10 acres over the long term. Impacts to naturalness would be negligible. Solitude and primitive recreation would be adversely affected by continued ORV use on 9,056 acres, but impact is minimal because ORV use levels are low.	Assessment work on 1,000 acres of mining claims would disturb less than 10 acres over the long term. Impacts to naturalness would be negligible. Solitude and primitive recreation enhanced by elimination of ORV use.
Energy and Mineral Resources	A total of 5,538 acres closed to further mineral entry and leasing; 3,518 acres would be open to mineral entry and leasing. No significant impacts.	All 9,056 acres open to mineral entry and leasing. No significant impacts.	All 9,056 acres closed to further entry and leasing. Assessment work would continue on about 1,000 acres of existing claims. No significant impacts.
Recreation Resources	A total of 100 visitor days annually displaced from 2 miles of vehicle trail on 5,538 acres; no significant impact.	ORVs limited to approximately 3½ miles of existing trails on 9,056 acres. No significant impacts.	A total of 250 visitor days annually displaced from 3½ miles of vehicle trails on 9,056 acres; No significant impact.

TABLE 2B

COMPARATIVE ANALYSIS OF IMPACTS Lankin Dome WSA

Resource Resource	Proposed Action (No Wilderness)	Alternative 1 (All Wilderness)
Wilderness Values	ORV use would adversely affect solitude and primitive recreation on less than 10% (less than 600 acres) of the WSA. Assessment work on jade claim would affect naturalness on less than 1% of the WSA. No significant impact.	Wilderness values protected on 6,316 acres. Assessment work would continue on existing mining claim; no impact on wilderness values.
Energy and Mineral Resources	All 6,316 acres open to mineral entry and leasing; assessment work would continue on one jade claim. No significant impact.	All 6,316 acres closed to mineral entry or leasing. Assessment worl would continue on one jade claim No significant impact.
Local Ranching Operations	No increased conflict or impact is expected. No impact on ranching operations.	20% increase (from 50 to 60) in contacts between public and landowners would result in increased disruption of local ranching operations.

PROPOSED ACTION AND ALTERNATIVES

TABLE 2C

COMPARATIVE ANALYSIS OF IMPACTS Split Rock WSA

Resource Resource	Proposed Action (No Wilderness)	Alternative 1 (All Wilderness)
Wilderness Values	ORV use would adversely affect solitude and primitive recreation on less than 10% (less than 1,200 acres) of the WSA. Assessment work on jade claim would affect naturalness on less than 1% of the WSA. No significant impact.	Wilderness values protected on 12,780 acres. Assessment work would continue on existing mining claim; no impact on wilderness values
Energy and Mineral Resources	All 12,789 acres open to mineral entry and leasing; assessment work would continue on one existing jade claim. No significant impact.	All 12,789 acres closed to mineral entry and leasing. Assessment work would continue on one jade claim. No significant impact.
Local Ranching Operations	No increased conflict or impact is expected. No impact on ranching operations.	30% increase (from 50 to 65) in contacts between public and landowners would result in increased disruption of local ranching operations.

TABLE 2D COMPARATIVE ANALYSIS OF IMPACTS Savage Peak WSA

Resource Resource	Proposed Action (No Wilderness)	Alternative 1 (All Wilderness)
Wilderness Values	ORV use would adversely affect solitude and primitive recreation on less than 10% (less than 700 acres) of the WSA. No significant impact.	Wilderness values protected on 7,041 acres.
Energy and Mineral Resources	All 7,041 acres open to mineral entry and leasing; no significant impact.	All 7,041 acres closed to mineral entry and leasing. No significant impact.
Local Ranching Operations	No increased conflict or impact is expected. No impact on ranching operations.	25% increase (From 40 to 50) in contacts between public and landowners would result in increased disruption of local ranching operations.

PROPOSED ACTION AND ALTERNATIVES

TABLE 2E

COMPARATIVE ANALYSIS OF IMPACTS Miller Spring WSA

Resource Resource	Proposed Action (No Wilderness)	Alternative 1 (All Wilderness)
Wilderness Values	ORV use would adversely affect solitude and primitive recreation on less than 10% (less than 600 acres) of the WSA	Wilderness values protected on 6,429 acres. No significant impact.
		,
Energy and Mineral Resources	All 6,429 acres open to mineral entry and leasing. No significant impact.	All 6,429 acres closed to minera entry and leasing. No significant impact.
Local Ranching Operations	No increased conflict or impact is expected. No impact on ranching operation.	13% increase (from 40 to 45) in contacts between public and landowners would result in increased disruption of local ranching operations.

TABLE 2F

COMPARATIVE ANALYSIS OF IMPACTS Copper Mountain WSA

Resource Resource	Proposed Action (No Wilderness)	Alternative 1 (All Wilderness)
Wilderness Values	Loss of naturalness, solitude and primitive recreation would occur on 840 acres through oil and gas exploration and development. Assessment work would continue on existing claims; no impacts on wilderness values.	Wilderness values protected on 6,858 acres. Assessment work would continue on existing mining claims; no impacts on wilderness values.
Energy and Mineral Resources	All 6,858 acres open to mineral entry and leasing. No impact.	All 6,858 acres closed to mineral entry and leasing. Projected oil field development would not occur. This is considered to be a significant impact.
Recreation Resources	ORVs limited to 2 miles of roads and trails constructed for mineral exploration; no significant impact.	All 6,858 acres closed to ORVs; no impact because no ORV use is occurring now.

CHAPTER 3

AFFECTED ENVIRONMENT

UNAFFECTED COMPONENTS OF THE EXISTING ENVIRONMENT

There are several components of the existing environment within the six WSAs described in this EIS that would be unaffected by the proposed action or any of the alternatives. These are briefly discussed below.

None of the six WSAs contain commercial forest land. Air quality and soils in all of the WSAs would be unaffected by any alternative. Vegetation and riparian areas would be unaffected by either designation or nondesignation of any of the WSAs as wilderness because the main activity affecting vegetation and riparian areas (livestock grazing) is not expected to change.

Water quality in the Sweetwater Canyon WSA (including the Sweetwater River and its tributaries) is expected to remain the same, with or without wilderness designation. None of the anticipated management actions described in Chapter 2 are expected to alter the present quality of water resources in the river or its tributaries because the actions would either occur outside the area of influence or would be small scale activities with a short duration.

Water resources in the Sweetwater Rocks WSA complex are limited to small springs and seeps. There are no lakes or perennial streams in these four WSAs. Because anticipated management actions are either already occurring or would be small-scale, water quality within these four WSAs would remain unchanged regardless of wilderness designation or nondesignation. Because there are no lakes or streams, there are no fisheries in the Sweetwater Rocks WSA complex.

For more information on these topics the reader is referred to Chapter 3 of the Lander Resource Management Plan (1986).

AFFECTED ENVIRONMENT

Sweetwater Canyon

General Characteristics

Sweetwater Canyon is located in Fremont County, Wyoming, approximately 15 miles east of South Pass City on the Sweetwater River. Map 1 (Chapter 1, location map) shows the wilderness study area location in relation to cities and towns and other major features of Fremont County.

Access to the WSA during summer from either side of the canyon is by unimproved two-track trails or ways, some of which cross private lands. These vehicle routes run into the BLM Hudson-Atlantic City road, Wyoming Highway 28 at South Pass, and U.S. Highway 287 on Beaver Rim. During most of the winter, the WSA is inaccessible by any of these roads because of drifted snow.

Sweetwater Canyon lies along the southeastern flank of the Wind River Range in the high plains desert. The WSA begins on the west near Wilson Bar, at an elevation of 7,150 feet. It ends on the east near Spring Creek and Chimney Creek at an elevation of 6,720 feet. The river drops 430 feet, or about 45 feet per mile, as it passes through the WSA.

Wilderness Values

Size

The Sweetwater Canyon WSA contains 9,056 acres of public land. No private or state inholdings and no split-estate lands are located within the WSA boundary. The boundary is defined by roads and by state and private lands.

Naturalness

Human influence is not substantially noticeable. This is particularly true in the river canyon itself. The only intrusions are two-track trails (Map 2, Chapter 2) and an abandoned mineral exploration site near the river at the western edge of the WSA.

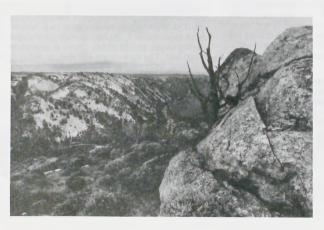
There are two basic types of topography in the WSA: the canyon and its tributary draws, and the gently rolling hills that surround the canyon. The canyon, which is 6-7 miles long, is a water-carved gorge nearly 500 feet deep. In places, the walls are almost vertical. Bare rock outcrops exist throughout the gorge. Outcrops along the canyon walls are interspersed with sagebrush, grasses, other shrubs, and pockets of aspen and willow, all of which provide considerable variety in the landscape (photos 1 and 2). Vegetation in the bottom of the gorge and along the river tributaries consists of willow, limber pine. aspen, cottonwoods, and juniper. The topography and vegetation are unique relative to the surroundings. The contrast between the WSA and surrounding hills is abrupt and striking. The terrain above the gorge is mostly flat with low, gently rolling hills and a few moderately scattered rock outcrops.

Outstanding Opportunities for Solitude and Primitive. Unconfined Recreation

The river canyon, coupled with dense riparian vegetation and numerous tributary draws, provides a high degree of solitude. The canyon follows the meanders of the Sweetwater River, creating numerous secluded places for camping or other recreational activities. The vegetation along the floor of the canyon and the topography of the canyon screen visitors from one another.

There are no developed recreational sites in or adjacent to the WSA. A limited amount of camping and picnicking takes place via four-wheel drive access routes. Use is concentrated at both ends of the canyon (Wilson Bar and Chimney creeks) and in the center of the canyon near Strawberry Creek. Visitors hike and backpack during the summer, but levels of use are low.

The river offers high-quality brown and rainbow trout fishing. The Wyoming Game and Fish Department (WGFD) has classified the river as an important trout water of regional importance. This high-quality fishing opportunity attracts recreationists from Wyoming and the neighboring states of Colorado and Utah. One commercial fishing outfitter has operated in the canyon.



Photograph 1: Sweetwater Canyon in late fall



Photograph 2: Sweetwater Canyon, looking downstream to the east.

According to visitor counts and traffic counter readings, the WSA receives its heaviest use during the fall hunting seasons and during the summer weekends. BLM recreation specialists estimated use at about 1,500 visitor days in the canyon during 1977. However, use has declined since the population of nearby Jeffrey City has dropped from an estimated 4,000 people to less than 500 because of the cessation of uranium mining. Visitor use is estimated to have stabilized at approximately 1,000 days annually.

Mule deer are hunted within the canyon. The principal small game species is the cottontail rabbit. Sage grouse are also hunted, and antelope are hunted on the flat, rolling areas above the canyon.

Of all the opportunities for recreation, the river itself is by far the most important. Typically, fishing opportunities attract visitors to the area. While fishing, visitors usually take advantage of other benefits such as the outstanding solitude, scenery, and camping opportunities along the river.

Special Features

The canyon has high scenic values, including the feeling of uncluttered, open space, isolation, and peacefulness.

The Sweetwater Canyon WSA has outstanding wilderness values. It contrasts sharply with the color and texture of the surrounding desert environment, adding bright green and blue hues to the landscape in summer and blue, gold, and brown in the fall. Steep rock walls also contrast with the nearby smooth, rolling hills.

Geology and Mineralization

The following sections were developed utilizing information published in the U.S. Geological Survey (USGS) Bulletin 1757-D, Mineral Resources of the Sweetwater Canyon Wilderness Study Area, Fremont County, Wyoming (USGS, 1988). This bulletin was prepared and the Wyoming Geological Survey and describes the results of mineral resource surveys conducted during the summer of 1986. The bulletin contains detailed descriptions of the geology, mining history, mineral resources, and potential for undiscovered mineral resources within the WSA. An appraisal of known mineral occurrences was made by the Bureau of Mines, and an assessment of the potential for undiscovered mineral resources was made by the USGS.

Geology

The Sweetwater Canyon WSA lies along the southeastern flank of the Wind River Range. The Wind River Range was uplifted during the Laramide Orogeny, which began in late Cretaceous time (see Appendix D).

Most of the WSA contains Precambrian metamorphosed sedimentary and granitic rocks as the surface bedrock unit. The Tertiary South Pass Formation overlies these Precambrian rocks in a few isolated areas. The Precambrian rocks outcrop in the eastern 75% of the WSA and consist mainly of pink and gray unaltered granite. A greenstone belt of Precambrian metasediments outcrop in the western third of the WSA consists of biotite-chlorite schists, garnet schists, and microcrystalline horn-

fels intruded by mafic dikes. These metasediments are deformed and sheared in a north to northwest trend (USDI, BLM 1976; USDI, GS 1988).

The Tertiary South Pass Formation consists of conglomerates and sandstones cemented with volcanic ash and some beds of volcanic ash (USDI, GS 1974).

Tertiary alluvium and colluvium deposits are scattered throughout the area. The alluvium consists of boulders, gravel, sand, silt, and clay deposited by the Sweetwater River and its tributaries.

Mineralization

The Lewiston Mining District, which was organized in 1879, includes a grouping of gold mines northeast of the head of the Sweetwater Canyon WSA. Placer gold was discovered along Strawberry Creek in 1842, and gold mining began in earnest in 1867 with the discovery of the Carissa Lode near South Pass City located about 10 miles west of the Lewiston Mining District. Many discoveries followed, but the mining boom was short-lived and most of the mines in all mining districts were shut down by 1895. Intermittent gold production continued until 1956, when the Duncan Mine between South Pass City and Atlantic City was closed (USDI, BLM 1976). There is no accurate record of the amount of gold produced from mining districts of South Pass and Lewiston.

In the Lewiston Mining District the lode gold is found in quartz veins associated with hydrothermally altered metasediments which contain silver, copper, arsenic, and tungsten. The placer gold is associated with medium to coarse grained Quaternary gravels primarily confined to drainage bottoms. A gold dredging operation took place at Wilson Bar just upstream from the WSA, but it closed in 1943 (USDI, BLM 1976).

The USGS (1988) noted that "In the extreme northwestern part of the WSA, the greenstone belt contains narrow gold-bearing quartz veins occurring in faults in graywacke of the Miners Delight Formation. Identified gold resources are present in these rocks outside the study area. Topographic projection of, and analytical data for the exposed part of the veins, suggest that subsurface continuity of the veins is possible." The USGS and Bureau of Mines concluded that small to moderate tonnage (less than 20,000 short tons) of gold-bearing vein rock might be present within the WSA.

The USGS (1988) concluded that placer gold occurs in the gravels of the Sweetwater River in the WSA. Bedrock gold concentrations and potential pay streaks of gold in the Sweetwater River could exist but because of the low gold concentrations of the gravel, no resource volumes were identified. Sub-

economic quantities of sand and gravel and granitic dimension stone occur within the WSA but the vast quantities of these salable mineral commodities elsewhere in the region make these resources unattractive for exploitation. In the past three years, the BLM has reviewed several notices for exploration operations in the Lewiston area; however, no plans of operations have been reviewed, denied, or approved for mining within the WSA.

The USGS and Bureau of Mines (1988) concluded for all studies within the WSA that there exists a high mineral potential for undiscovered lode-gold resources in the greenstone rocks that underlie the western side of the WSA. A high mineral resource potential for undiscovered placer gold has been assigned to the gravels along the banks and streambed of the Sweetwater River and along Strawberry Creek. Visible gold was detected in panned concentrates along the entire length of the river in the WSA, but the gold concentrations were determined uneconomic at gold prices of \$400 per troy ounce.

During 1974 the Atomic Energy Commission conducted an airborne radiometric survey that identified some small anomalous areas near Sweetwater Canyon. The Precambrian granitic rocks have been intruded by peamatites that are considered moderately favorable for the occurrence of uranium and thorium (Tetra Tech 1983). The base of the Flathead Formation in the extreme eastern end of the WSA has a low favorability for the occurrence of uranium (Tetra Tech 1983). During field work conducted by Tetra Tech, Inc., in 1983, a small radiometric anomaly with measurements twice as high as the background count was identified in the lower 40 feet of the Flathead Formation along the eastern edge of the WSA. This anomaly may guide any future exploration. The USGS (1988) gave the WSA a low mineral. resource potential for undiscovered uranium because no evidence of possible uranium deposits were observed in the WSA.

Nephrite jade has been reported in the vicinity of the WSA near amphibolite rocks. No commercial quantities of jade have been reported in the vicinity of the WSA. The USGS (1988) did not report any finding of jade occurrences within the WSA.

According to the USGS (1983) there is no potential for oil and gas accumulation in this WSA. The USGS (1988) concluded that the study area has no recognized energy resource potential for oil and gas because of the Precambrian crystalline rocks which underlie it. There are no oil and gas leases within the WSA.

Tungsten, in the form of sheelite, was found in the Burr Mine about 1½ miles west of the WSA. The sheelite was found associated with quartz veins and hematiferous schists (Wilson, 1951). The USGS (1988) reported anomalous concentrations of tin

and tungsten in the Sweetwater River gravels and the tributaries of the river. A low resource potential has been assigned for tin and tungsten in placer-type deposits in the Quaternary gravels along the Sweetwater River and Strawberry Creek. A low resource potential for undiscovered tin and tungsten in lode-type deposits has been assigned to the entire WSA

Map 8 shows the mineral resource potential of the Sweetwater Canyon WSA. This map was adapted from a similar map in the USGS Bulletin 1757-D. Map 9 illustrates the approximate locations of mining claims within the Sweetwater Canyon WSA.

Livestock Grazing

Twelve operators graze livestock within the boundaries of the Sweetwater Canyon WSA. The majority of the area is used for grazing cattle, although sheep occasionally use the southeast portion of the WSA. Livestock graze in most of the WSA, except for the steep canyon walls. Cattle tend to concentrate along the river and its associated riparian zone. Livestock grazing occurs from May through December on the portion south of the river.

There are no structural range improvements in the WSA. Herding of livestock has been done by horse-back and four-wheel drive vehicle on the existing two-track trails that cross the interior of the WSA.

There are two grazing allotments in the area that are made up in part by lands in the Sweetwater Canyon WSA. Only a small portion of each allotment (in terms of both acreage and livestock forage) is contained within the boundaries of the WSA. The current erosion condition class is rated as slight overall. Erosion problems are limited to isolated disturbed sites such as two-track trails.

Table 3 lists and describes the grazing allotments, including a breakdown of federal acreage and animal unit months in the WSA and in the allotments as a whole. Map 10 shows the two allotments in the WSA

Recreation

The Sweetwater Canyon provides a variety of recreational activities, including fishing, hunting, sight-seeing, hiking, camping, and historic trail use. Use, primarily by local residents, is largely dispersed. In the canyon, the Sweetwater River provides high-quality trout fishing. Many of the 1,000 annual estimated visitor days are attributable to fishing and occur during June, July, and August. Sweetwater Fishing Expeditions, a commercial guide service, has been issued a special recreation-use permit for the area in past years. The area receives hunting use

in the fall; antelope, mule deer, and sage grouse are the principal game species hunted. Sightseeing and camping use are largely associated with other recreational activities. Recreational ORV use is estimated to be approximately 250 visitor days per year. This use is generally associated with, or in support of, other recreation activities.

There are two vehicle access points to the river in or along the boundary of the WSA, the Wilson Bar area on the north end, Chimney Creek on the south, and Strawberry Creek in the center of the canyon (see Map 2). The access routes to Wilson Bar and Chimney Creek actually lie outside of the WSA. The more remote canyon areas are accessible only by foot or horseback from those starting points. ORV use problems have occurred in these areas, and minor trail closures have been initiated on trails that have been damaged. ORV designations completed in 1981 limit use to approximately $3\frac{1}{2}$ miles of existing two-track trails and vehicular routes. Except for the Strawberry Creek crossing, most ORV use within the WSA remains above the canyon rim.

Wildlife/Fisheries

Wildlife

Sweetwater Canyon contains a diverse mixture of vegetation that provides a variety of habitat types for several wildlife species. Along the top of the canyon rim and on the south-facing canyon slopes, the sagebrush/grass community is the dominant habitat type. On the north facing slopes and in the deepest part of the canyon, small stands of limber pine, lodge-pole pine, and aspen provide structural diversity that increase the number of reproduction, feeding, and hiding sites for wildlife. The riparian vegetation, which roughly parallels the river, consists of such water-loving species as willow, water birch, and cottonwood.

Sweetwater Canyon is crucial winter range for moose. Heavy accumulations of snow in the Wind River Range cause moose to move out of the mountains and feed on the willow stands along the Sweetwater River and its tributaries. Under extremely severe winter conditions, elk move off their normal winter range on the upper Sweetwater and Oregon Buttes country into the Sweetwater Canyon. Consequently, the WSA is classified as severe winter relief range for elk.

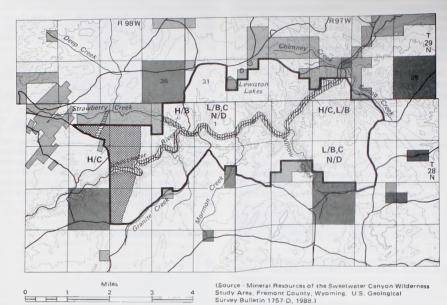
The WSA is yearlong range for mule deer. The wet meadows provide important summer forage, and the numerous shrub species provide winter browse. Deer use the pockets of aspen and conjider as bedding sites. These pockets also provide hiding cover and shade from the hot summer sun.

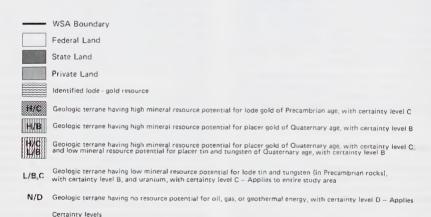


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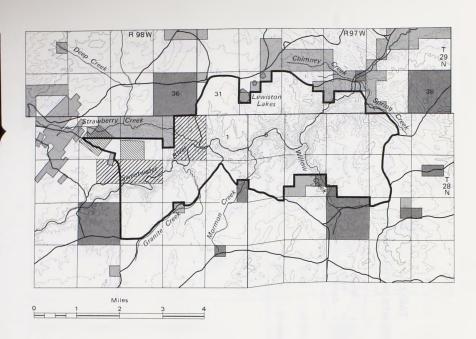


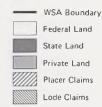
Available information suggests the level of mineral resource potential

Available information gives a good indication of level of resource potential

Available information clearly defines the level of mineral resource potential

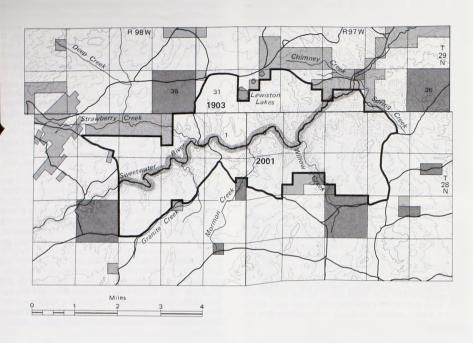
Map 8
Mineral Resource Potential
Sweetwater Canyon





LIVESTOCK GRAZING ALLOTMENTS IN THE SWEETWATER CANYON WSA TABLE 3

Hotment Number	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
1903	Silver Creek Common	Spring-Summer Fall 5/15-9/30	Cattle	31,953	3,830	12	3,552	426	2
2001	Green Mountain Common	Spring-Summer- Fall 5/1-12/31	Cattle, Sheep	468,379	5,226	-	47,729	533	-



WSA Boundary
Federal Land
State Land
Private Land
River- Allotment Boundary
1903 Silver Creek Common

2001 Green Mountain Common

Antelope inhabit the sagebrush/grass habitat along the canyon rim and south facing slopes during the summer. Springs and seeps throughout the canyon provide drinking water during the summer. Most of the pronghorn that use the canyon migrate to the south or east for the winter.

Cottontail rabbits, sage grouse, and many species of waterfowl are numerous throughout the canyon. Occasionally chukar-partridge and blue grouse are present. Beavers are common throughout the WSA. Many of the tributaries to the Sweetwater River contain beaver dams and lodges. Red foxes, coyotes, bobcats, and muskrats also inhabit the WSA.

Golden eagles, ferruginous hawks, prairie falcons, red-tailed hawks, and several other species of raptors are common residents during the summer in the WSA. Cliffs and rock outcrops provide suitable raptor nest sites, and the diverse vegetative structure provides habitat for mice, shrews, voles, and other nongame species on which raptors prev.

The Sweetwater Canyon WSA is within the range of the bald eagle, peregrine falcon, and black-footed ferret. However, no documented sightings of these three species have been made in the WSA. Bald eagles may occasionally use the area during the winter for hunting, and peregrines are believed to migrate through the area in late fall and early spring. The area does not contain any prairie dog towns; consequently, black-footed ferrets are not likely to live there.

Fisheries

A major recreational attraction of Sweetwater Canyon is the fishery. Rainbow, brown, and brook trout are present in the Sweetwater River and in two tributary creeks in the study area. Trout are not stocked in the canyon area.

The stream is described by WGFD as one of considerable natural beauty; the type that is favored by tourists. Vehicular access is fairly good (there is one road to the river at Strawberry Creek and several roads to the canyon edge), and streambank vegetation does not restrict use by fishermen. The river is not floatable during fishing season (July through October). The Sweetwater River is not large in the canyon (about 40 feet wide), but it is moderately productive.

Sweetwater Canyon contains the most important BLM-administered trout fishing in the Lander Resource Area.

There are about 10 miles of brown and rainbow trout habitat in the study area (Sweetwater River) and 2 miles of brook trout habitat (tributaries). Habitat in the canyon part of the Sweetwater River, as shown by fish sampling and habitat surveys. is

better than that found in adjacent portions of the Sweetwater River Stream gradient is steeper, large boulders are present, streambanks are mostly stable, and the quality and frequency of pools is near optimum for this type of stream. Spawning gravels have variously been described as good to poor. It is possible that spawning habitat quality varies from year to year in the canyon, depending on the amount of gravel entering, deposited and leaving the canyon each year.

The Wyoming Department of Environmental Quality has designated the upper Sweetwater River, including the Sweetwater in the study area, as a Class I water, a designation reserved for waters of the highest quality and importance to the state. The WGFD Stream Fisheries Classification for this section of the Sweetwater River describes it as an important trout water of regional importance (Class III).

Both trout and nongame fish are present in the canvon. Brown trout are more numerous than rainbow trout, but rainbows make up more of the total trout population in the canyon than they do either above or below the canyon. This may indicate a preference for bouldery, pocket-water type of stream habitat. Rainbow trout up to 16 inches and brown trout up to 20 inches have been electoshocked by the WGFD in the canyon. Trout are moderately abundant in the canyon and WGFD population estimates (using single pass techniques) have ranged from 229 to 960 trout per mile. Trout over 7 inches in length are estimated to range between 176 and 295 trout per mile. The canyon contains more trout per mile than those sections of the Sweetwater River above or below the canyon.

Nongame fish present in the canyon are longnose, white and mountain suckers; lake chubs; creek chubs; longnose dace; lowa darters; and carp. These fish are not abundant.

Trout reproduction in the canyon is favored by mild winters and log spring runoff. Years of harsh winter and heavy spring flooding reduce reproductive success and numbers of larger trout present in the canyon.

Cultural Resources

A search of the files of the cultural resources in the Sweetwater Canyon WSA was conducted. During a low-intensity reconnaissance inventory in 1975, a number of topographic features in the WSA were sampled by a BLM archeologist. Thirteen prehistoric sites were identified that were believed to be one-time occupation sites that had been used for a very short period. No information is available as to the age or significance of the sites. The inventory indicated that a good probability exists for finding additional sites.

Local individuals have also reported a small site along the river floodplain that consists of several stone circles. These stone circles are commonly thought to be the result of Native American campsites where teepees were used for shelter.

The prehistoric people who occupied the area were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time in any one location. A particular cultural site might represent a one-time use of a location, or repeated use over thousands of years.

Historic period resources also occur in the Sweetwater Canyon WSA. One site located along the Sweetwater River is listed on the National Register. This site was used by Jedediah Smith and his company of trappers in 1824. They were headed toward the Green River for that spring's trapping, but a severe storm prevented the party from crossing South Pass. Instead, the trappers turned eastward and found shelter in a grove of aspen in the canyon. They stayed at this site for 2-3 weeks until the weather cleared. The site is now withdrawn from all forms of mineral entry and leasing.

The Oregon and Mormon Pioneer National Historic Trails form a part of the northern boundary of the WSA. A major cut-off route of the trail, the Seminoe Cut-off, ran just south of the WSA but does not enter the WSA. Historic uses of the trails included emigrant transportation, military protection and transportation, the Pony Express, the early Overland Stage Line and Telegraph, and early mining and livestock transportation. This major corridor was used by thousands of people during the westward expansion and gold rush days to traverse the Sweetwater Valley and the Continental Divide at South Pass.

Exploration for gold in the general vicinity began in 1842 with the discovery of placer gold along Strawberry Creek. Later gold exploration at nearby Lewiston in the 1800s was extensive and resulted in several large operations. However, there is no record of any gold ever having been placer-mined from within the WSA itself.

Lankin Dome

General Characteristics

The topography of the Lankin Dome WSA is in two basic forms: the uplifted mountains of reddish granite rocks, slabs, and exfoliating domes and the flats of Nolen Pocket north and west of the rocks. Elevations in the area range from about 6,200 feet at the western boundary road to about 7,700 feet on Lankin Dome.

Vegetation varies directly with the two landforms. The rocks support little vegetation; however, the drainages among them support fairly dense "pockets" of limber pine, juniper, aspen, and sagebrush. These scenic green areas contrast sharply with the reddish granite.

Wilderness Values

Size

The unit has 6,316 acres of contiguous public land; this includes 360 acres of split-estate land on which only the surface is federally owned, not the minerals. The unit is bordered on the north by private and federal lands and a road, on the west by a county road that provides the only public access, on the south by private lands, and on the east by state, federal, and private lands and a road.

Naturalness

Four two-tracked vehicle ways and two fence lines penetrate the unit. Both fences run from the west to the base of the rocks. A primitive way runs in from the west to a small pocket; however, because of topography, it has minimal effect upon the rest of the area. Three ways penetrate Nolen Pocket from the north. All of these ways are two-tracked, and while they are noticeable from within the area, they do not significantly compromise the area's overall naturalness. These ways could be rehabilitated with the use of hand tools and weathering associated with time.

Outstanding Opportunities for Solitude and Primitive, Unconfined Recreation

Because of the WSA's topography and vegetation, solitude is readily available. The draws in the unit are generally small, as are the pockets along its perimeter. Campsites and hiking routes, while scenic, are not secluded from the surroundings. A large degree of visitor overlap would occur.

The opportunity for solitude exists, but it is not outstanding since the area that provides topographic and vegetative screening to the visitor is small and would be somewhat confining. The pockets along the base do not provide the seclusion necessary to make the area outstanding.

The unit offers outstanding opportunities for a primitive and unconfined type of recreation—rock climbing, hiking, backpacking, and hunting. Cracks in the granite allow entry for water, which produces springs and seeps that provide a limited amount of potable water.

Lankin Dome (photo 3), the most prominent feature of the unit, has long been an attraction to rock climbers. Its history of rock climbing is documented back to the 1950s. The dome has been featured in national magazines such as Summit. As seen from the east, Lankin Dome is somewhat reminiscent of Devils Tower, a national monument in northeast Wyoming.

Backpacking to one of the wooded "pockets" would be one of the recreational activities available. Hunting for antelope is outstanding on the flats because game is abundant and packing distances are short. Opportunities for bird watching also are outstanding.

Special Features

The area is exceptionally scenic, with the reddish granite boulders, slabs, and exfoliating domes contrasting significantly with the greens of the wooded pockets. These large expanses of barren granite, which are not found elsewhere in central Wyoming, form a natural and highly scenic backdrop for the Sweetwater River Valley, an area that played an important role in the history of the exploration and early settlement of the West.

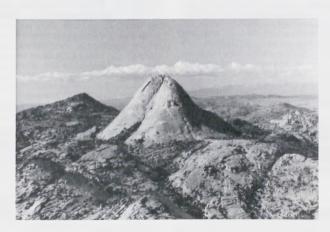
Livestock Grazing

The WSA currently provides 373 AUMs for livestock grazing in portions of five allotments. Table 6 lists details of the five grazing allotments in the Lankin Dome WSA, and Map 11 shows the locations of the allotments. All of the grazing use is by cattle. The Green Mountain rangeland program summary (USDI, BLM 1983a) contains a detailed description of livestock grazing management.

Geology and Mineralization

Geology

The Lankin Dome WSA is within the Granite Mountain Uplift, which is part of a large east-west trending uplift that separates the greater Green River Basin to the south from the Wind River Basin on the north. The Granite Mountains generally have been a structural high since earliest Paleocene time (see appendix D), although the area has undergone repeated structural adjustment since that time. During Miocene and Pliocene times, portions of the area were topographically low and were the sites of deposition.



Photograph 3: Lankin Dome, a large granite monofith, is one of the most spectacular features of the Granite Mountains.

The predominant bedrock units exposed in the Lankin Dome WSA are a medium to coarse grained biotite granite and a granitic gneiss (Tetra Tech 1983). These Precambrian granites and gneisses outcrop in the central parts of the WSA and contain intrusive dikes of basalt and pegmatites.

During Miocene time, the Split Rock Formation was deposited in the topographically low, probably undrained, portions of the Granite Mountains. The Split Rock Formation is generally less than 1,000 feet thick and consists of white to tan, fine to coarse grained sandstones and conglomerates (USDI, GS 1970). During Pliocene time, the Moonstone Formation was deposited in many of the same areas and is now found overlying the Split Rock Formation. The Moonstone reaches a maximum thickness of 1,350 feet and consists of interlayered sandstones, limestones, tuffs, conglomerates, and claystones (USDI, GS 1970). The Split Rock and Moonstone Formations surround the Precambrian core and are exposed in outcrops on the fringes of the WSA.

Mineralization

According to USGS (1983), there is no potential for oil and gas accumulation in this WSA.

The area surrounding the WSA contains occurrences of uranium, thorium, pumicite, sodium carbonate-sulfate, vermiculite, zeolites, and jade.

The uranium and thorium occurrences are associated with pegmatites in the Precambrian rocks and with the Tertiary sedimentary rocks of the Split Rock and Moonstone formations. Occurrences of uranium and thorium in pegmatite dikes are probably very restricted and have low potential for development.

Uranium occurrences in the Split Rock Formation appear small and localized, and little source material (volcanic ash) is present in the formation (USDI, GS 1970). For these reasons, this formation has a low to moderate favorability for the occurrence of uranium. The Moonstone Formation has widespread uraniferous beds and contains more volcanic tuff beds, which could serve as a source of uranium (USDI, GS 1970). For these reasons, the Moonstone Formation has a moderate to high favorability for the occurrence of uranium.

The pumicite occurrences within and near the WSA are small, and are believed to have a low potential for development.

Some lakes occupying depressions in the exposed Split Rock Formation contain sodium carbonates and sodium sulfates; however, there are no known soda lakes within the WSA.

Jade occurs in veins or dikes in the Precambrian rock or as place concentrations in the Tertiary sediments (Tetra Tech 1983). There is one jade mine adjacent to the WSA that has been worked in recent years (NW%SE%, Section 3, T. 29 N., R. 90 W., 6th P.M.). The WSA has a moderate to high favorability for the occurrence of jade.

The Tertiary Moonstone and Wagon Bed formations contain zeolite minerals in certain locations near the WSA. Phillipsite is found near the top of the type section of the Moonstone Formation in Section 17, T. 30 N., R. 89 W., 6th P.M. (about 2 miles northeast of the WSA), and many clay samples from the Moonstone contain clinoptilolite (USDI, GS 1970). In the vicinity of the WSA, the Wagon Bed Formation was apparently well drained during deposition and without saline/alkaline lakes (Boles and Surdam 1979). This would reduce the probability of zeolite mineral deposits in the Wagon Bed Formation in this area. The Moonstone Formation does contain the sediments of saline lakes in the WSA (USDI, GS 1970); their presence increases the possibility of finding significant zeolite minerals in the Moonstone in this area

The Geologic Survey of Wyoming Map Series MS-14 (1985) shows occurrences of gold, silver, and other minerals in or near Sweetwater Rocks WSAs.

Table 5 lists oil and gas leases in the Lankin Dome WSA. These are post-FLPMA leases which contain the wilderness protection stipulation.

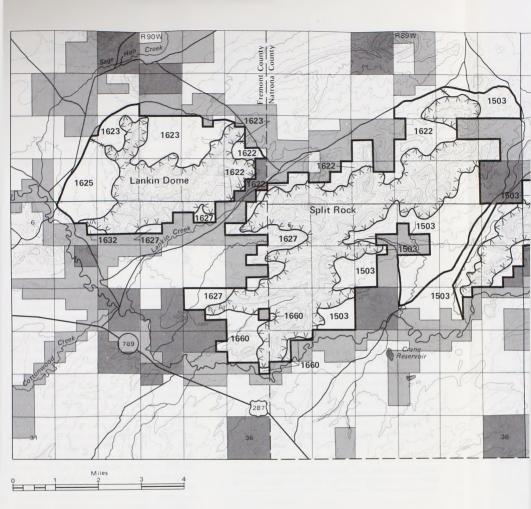
Recreation

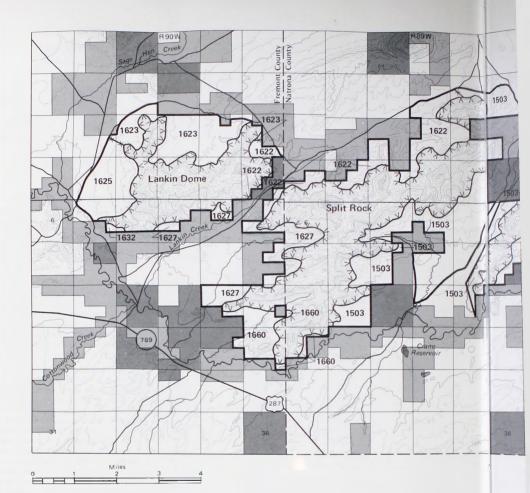
Recreational values in the Lankin Dome WSA are significant. Extremely rough topography and rock outcrops allow for only primitive forms of recreation such as rock climbing, hiking, hunting, sightseeing, camping, and rock collecting. Although use levels are quite low, the WSA attracts users from many parts of the country (an estimated 250 visitor days annually). Recreational ORV use is estimated to be 50 visitor days per year. ORV use depends largely on the population fluctuations of nearby Jeffrey City.

Several special recreation use permits have been issued in the area for outfitter and guide hunting operations. The WSA offers mule deer hunting, and a limited number of antelope licenses are issued each year for a hunt unit encompassing the area. Winter sports such as cross-country skiing and snowmobiling have minimal potential because of poor access and low snowpack, rugged terrain, and strong, nearly continuous winter winds.

TABLE 4
LIVESTOCK GRAZING ALLOTMENTS IN THE LANKIN DOME WSA

Mumber	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
1622	Lankin Creek	Winter-Spring	Cattle	2,612	213	80	248	20	00
1623	Murphree	Spring-Summer- Fall	Cattle	9,113	1,836	20	1,061	214	20
1625	Jamerman Pastures	Spring-Summer- Fall-Winter	Cattle	6,790	808	12	478	25	12
1627	Individual	Fall-Winter	Cattle	2,880	526	18	301	99	18
1632	North Hat Pastures	Spring-Summer	Cattle	1,040	155	5	180	27	5





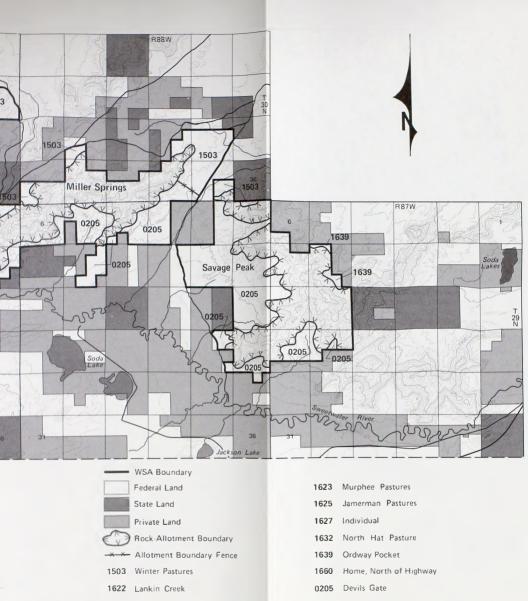




TABLE 5 OIL AND GAS LEASES IN LANKIN DOME WSA

Lease Number	Approximate Acreage	Effective Date
W-77823	400	03/01/82*
W-77729	325	02/01/82*

^{*} Lease being held in suspension as of 1/14/87.

The WSA lies adjacent to US Highway 287, a major tourist route to Yellowstone and Grand Teton National Parks from Interstate 80 to the south. Thousands of travelers use US 287 to reach the parks. BLM's Split Rock Interpretive Site (located on US 287 in the vicinity of Lankin Dome and Split Rock WSAs) receives over 30,000 visitors yearly, many on their way to the parks.

The popularity of this highway rests in part with the scenic backdrop provided by the four Sweetwater Rocks WSAs. In tourist materials, local towns and Chambers of Commerce promote US 287 as a scenic route to the national parks and show the Sweetwater Rocks on maps (as one mountain range, not four BLM WSAs) or describe them as a scenic backdrop to the historic Oregon Trail.

Legal access by vehicle to the Lankin Dome WSA is along the Agate Flat Road on the west side of the WSA. Although other roads exist that could provide access to more popular spots within the WSA (Lankin Dome, for example), these cross private land and thus are not legal access routes. As a result, most visitors to the WSA cross private land to reach the area. There are three landowners adjacent to this WSA. Some visitors will attempt to contact one of the landowners to ask permission to cross private land. Others will simply trespass to get to the area. In addition, some visitors leave gates open or drive off existing roads. Most visitation occurs from May through October. About 50 such incidents (visitor contacts, trespass, gates left open, etc.) occur during this period.

Wildlife

The Lankin Dome WSA along with the other three Sweetwater Rocks WSAs, contain a complex intertwining of rock and vegetation. Since many wildlife species appear to use a combination of different sites within these rock lands, the four WSAs in the Sweetwater Rocks have been classified as one standard habitat site, which is described below.

The steep, bare rock slopes, cliffs, and huge boulder fields are laced with cracks and canyons that form distinct and interpersion of many small, disjunct pockets, basins, slopes, benches, and ravines with shallow remnants or accumulations of soil. Virtually all degrees of slope and exposure are represented. The extensive bare rock, along with the varied combinations of slope and exposure, greatly influence the effective moisture on a site-by-site basis. Vegetative cover and compositions respond to variations in these abiotic factors. This results in the overall aspect of fractured bare rocks and boulders interlaced with vegetative communities concentrated in irregular patches and interconnecting stringers. Woodland, shrubland, grassland, and riparian vegetative types are represented on sites varying form a few hundred square feet to 15 or 20 acres in

Tree cover varies from scattered limber pines 5 to 50 feet tall, or a few Rocky Mountain or Utah junipers, to small stands that may also contain a few Douglas fir or small aspen clones.

Herbaceous cover varies greatly between sites. Bluebunch wheatgrass, needleand thread, and Sandberg's bluegrass are a few of the principal grass species. Sagebrush, rabbitbrush, rockspirea, wax current, and Wood's rose comprise the major shrub species. Narrowleaf cottonwood, snowberry, gooseberry, chokecherry, basin wild rye, and Nebraska sedge are common on the mesic sites.

The large boulders and pockets of limber pine and aspen in the units provide cover and foraging areas for mule deer during the summer. Most of the WSAs are classified as mule deer winter-yearlong range. During the winter, mule deer are often found in juniper stands. Shrubs, particularly sagebrush, rabbit-brush, and bitterbrush, are the primary food of mule deer in the winter. Pronghorn antelope inhabit the rocklands in the meadows and grasslands that surround the rocks, much of which is crucial winter range.

The Sweetwater Rocks WSA complex is historical bighorn habitat and still contains adequate habitat to support a bighorn population. The granite rock formations provide escape cover, ant the small pockets of grasses and forbs provide enough forage to support a fairly large bighorn population.

Cottontail rabbits, sage grouse, and mourning doves are plentiful in the WSA. These species use a variety of habitats. Coyotes, bobcats, jackrabbits, and several species of raptors are common throughout the area. The steep cliffs and rock outcrops provide nesting habitat for golden eagles, prairie falcons, and red-tailed hawks, as well as prime hunting habitat for bobcats and coyotes.

Numerous songbirds such as Clark's nutcrackers, violet-green swallows, black-capped and mountain

chickadees, and nuthatches are found in the WSA. Reptiles such as northern sagebrush lizards and prairie rattlesnakes use the area.

The Sweetwater Rocks WSA complex is within the range of bald eagle, peregrine falcon, and black-footed ferret. No bald eagle nests, roosts, or perches are know to exist with the Lankin Dome WSA. Although no peregrine aeries have been found in this WSA, the area has high potential as peregrine habitat. No ferret searches have been conducted in and around the WSA, but prairie dogs, ferrets main prey, are plentiful on the rangelands surrounding the rocks.

Cultural Resources

A search of the cultural resource files for this WSA was conducted. Although there has been little inventory work done in the WSA, some information is available on the types of prehistoric resources present in the general area. Prehistoric hunting camps and habitations are common around the Sweetwater Rocks WSA complex, especially near water sources. Typical site types include surface chipped stone scatter, buried campsites with firepits and stone circle sites. Based on diagnostic artifacts found in and near the Sweetwater Rocks WSA complex, prehistoric Native Americans frequented this region for at least 12,000 years. The prehistoric people who produced those sites were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time at any one location. A particular cultural resource site might represent a onetime use of a location or repeated use for thousands of vears.

Because of the proximity of the Sweetwater Rock WSAs to the Sweetwater River, the WSAs were prominent in the early history of this region. The Oregon and Mormon Pioneer Trail ran just south of this WSA. Diary accounts of trail emigrants commonly mention the Sweetwater Rocks. Trapping also occurred periodically in the area along the Sweetwater River and the WSA.

Split Rock

General Characteristics

Virtually all of the topography in the Split Rock WSA is mountainous terrain. These mountains of reddish, decomposing granite are divided by numerous small drainages or pockets. Many of the granite uplifts form gigantic slabs, domes, and/or

piles of broken rocks from the exfoliated areas above; the slope exceeds 100% slopes in places. Elevations range from about 6,200 feet in Beaton Pocket to 8,508 feet on McIntosh Peak. Total relief in the unit is about 1,800 feet.

Vegetation is diverse. The rockier, steeper slopes sometimes support little or no vegetation; however, for the most part the mountains support scattered juniper and limber pine, which contrasts scenically with the reddish granite. The most outstanding vegetative character, however, is found in the pockets, where sagebrush and grasses give way to stands of limber pine, juniper, and aspen as one moves up the pocket toward the water source.

Wilderness Values

Size

The WSA has 12,789 acres of contiguous public land with one inholding, a 40-acre parcel of private land, and one 40-acre parcel of split-estate land on which only surface is federally owned. The private parcel was not included in the acreage computation. The unit is bordered on the north by private and federal lands and by a road allowing the only public vehicle access; on the west by private, state, and federal lands; on the south by state and private lands; and on the east by private, state, and federal lands and a road

Naturalness

For the most part the WSA is in natural condition, free of human works. There are two-track vehicle ways that penetrate the unit in the southeast and west; however, because of vegetative and/or topographic screening and the primitive, unused nature of those ways, they have little or no effect on the naturalness of the unit. An old jade prospect in the southeast is topographically screened from the remaining unit. One dilapidated cabin on public land in Miller Pocket is not visible from more than 100 yards because of the vegetative screening; therefore, it has no effect on the apparent naturalness of the area.

Outstanding Opportunities for Solitude and Primitive, Unconfined Recreation

Within the pockets, mini-forests allow visitors to be free of the influence of others within relatively short distances. The contrast of green trees and the reddish peaks of granite enhances the opportunities for solitude, so that these opportunities are outstanding.

The only areas where solitude is not obtainable are the flats at the mouths of the pockets and the wide alluvial slope of the extreme southeast part of the area. Here, neither vegetation nor topography allows visitors to find secluded spots or to be out of the sights and sounds of others.

The unit provides a variety of opportunities for primitive, unconfined recreation. Water and numerous secluded campsites are available. The size and scenic quality of the WSA provide a desirable setting for backpacking and hiking. Cultural, historical, and wildlife aspects furnish opportunities for nature study, photography, environmental education, and bird watching.

Special Features

The area contains a wide base of supplemental values to draw visitors. The historical aspects of the area include Miller's Cabin (once the home of a trapper), numerous fields of arrowhead and thumbscraper chippings and fragments, and a buffalo jump used by prehistoric people. Split Rock, a historic landmark (shown in photo 4), is in the WSA, as is part of the Oregon Trail corridor on the Sweetwater River, is in the National Register of Historic places.

Livestock Grazing

The WSA currently provides 1,141 AUMs for live-stock grazing. The AUMs are spread through portions of four allotments comprising the WSA. All grazing use is by cattle. Table 6 lists details of the four grazing allotments in the Split Rock WSA, and map 10 shows the locations of the allotments. The Green Mountain Rangeland Program Summary (USDI, BLM 1983a) contains a detailed description of livestock grazing management.

Geology and Mineralization

Geology

Like other Sweetwater Rocks WSAs, the Split Rock WSA is within the Granite Mountain Uplift, which is part of a large east-west trending uplift that separates the greater Green River Basin from the Wind River Basin. The Granite Mountains generally have been a structural high since earliest Paleocene time (see appendix D), although the area has undergone repeated structural adjustment since that time. During Miocene and Pliocene times, portions of the area were topographically low and were the sites of deposition.



Photograph 4: Split Rock, a historic landmark for emigrants on the Oregon Trail

TABLE 6
LIVESTOCK GRAZING ALLOTMENTS IN THE SPLIT ROCK WSA

Number	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Total Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
1503	Winter Pastures	Winter-Spring	Cattle	51,808	5,154	10	8,076	803	10
1622	Lankin Creek	5	Cattle	2,162	1,535	69	248	146	59
1627	Individual	Fall-Winter	Cattle	2,880	853	30	301	68	30
1660	Highway	Winter-Spring	Cattle	1,353	681	90	205	103	20

The predominant bedrock units exposed in the WSA are a medium to coarse grained biotite granite and a granitic gneiss (Tetra Tech 1983). These Precambrian granites and gneisses outcrop in the central parts of the WSA and contain intrusive dikes of basalt and pegmatites.

During Miocene time, the Split Rock Formation was deposited in the topographically low, probably undrained, portions of the Granite Mountains. The Split Rock Formation is generally less than 1,000 feet thick and consists of white to tan, fine to coarse grained sandstones and conglomerates (USDI, GS 1970). During Pliocene time, the Moonstone Formation has deposited in many of the same areas and is now found overlying the Split Rock Formation. The Moonstone reaches a maximum thickness of 1,350 feet and consists of interlayered sandstones, limestones, tuffs, conglomerates, and claystones (USDI, GS 1970). The Split Rock and Moonstone Formations surround the Precambrian core and are exposed in outcrops along the fringes of the WSA.

Mineralization

According to USGS (1983), there is no potential for oil and gas accumulation in this WSA.

The area surrounding the WSA contains occurrences of uranium, thorium, pumicite, sodium carbonate-sulfate, vermiculite, zeolite, and jade.

The uranium and thorium occurrences are associated with pegmatites in the Precambrian rocks and with the Tertiary sedimentary rocks of the Split Rock and Moonstone formations. Occurrences of uranium and thorium in pegmatite dikes are probably very restricted and have low potential for development.

Uranium occurrences in the Split Rock Formation appear small and localized, and little source material (volcanic ash) is present in the formation (USDI, GS 1970). For these reasons, this formation has a low to moderate favorability for the occurrence of uranium. The Moonstone Formation has widespread uraniferous beds and contains more volcanic tuff beds, which could serve as a source of uranium (USDI, GS 1970). For these reasons, the Moonstone Formation has a moderate to high favorability for the occurrence of uranium.

The pumicite occurrences in and near the WSA are small, so they probably have a low potential for development.

Some lakes occupying depressions in the exposed Split Rock Formation contain sodium carbonates and sodium sulfates; however, there are no known soda lakes within the WSA.

The Tertiary Moonstone and Wagon Bed formations contain zeolite minerals in certain locations

near the WSA. Phillipsite is found near the top of the type section of the Moonstone Formation in section 17, T. 30 N., R. 89 W., 6th P.M., about 2 miles northeast of the WSA, and many clay samples from the Moonstone contain clinoptilolite (USDI, GS 1970). In the vicinity of the WSA, the Wagon Bed Formation was apparently well drained during deposition and without saline/alkaline lakes (Boles and Surdam 1979). This would reduce the probability of zeolite mineral deposits in the Wagon Bed Formation in this area. The Moonstone Formation does contain the sediments of saline lakes in the WSA (USDI, GS 1970); their presence increases the possibility of finding significant zeolite minerals in the Moonstone in this area.

Economically valuable mineral resources are not known to occur in the Split Rock WSA. The Geologic Survey of Wyoming Map Series MS-14 (1985) shows occurrences of gold, silver, and other minerals in or near the Sweetwater Rocks WSAs.

Table 7 lists oil and gas leases the Split Rock WSA. These are post-FLPMA leases and contain the wilderness protection stipulation.

OIL AND GAS LEASES IN THE SPLIT ROCK WSA

Lease No.	Approximate Acreage	Effective Date
W-77823	320	03/01/82
W-77729	680	02/01/82

Recreation

Recreational values in the Split Rock WSA are significant. Extremely rough topography and rock outcrops allow for only primitive forms of recreation such as rock climbing, hiking, hunting, sightseeing, camping, and rock collecting. Although use levels are quite low, the Split Rock attracts users from many parts of the country. The annual visitation in this WSA is estimated at 1,750 visitor days per year. Recreational ORV use is estimated to be 250 visitor days per year. ORV use depends largely on the population fluctuations of nearby Jeffrey City.

Several special recreation use permits have been issued in the area for outfitter and guide hunting operations. The WSA offers mule deer hunting, and a limited number of antelope licenses are issued each year for a hunt unit encompassing the area. Winter sports such as cross-country skiing and snowmobiling have minimal potential because of

poor access and low snowpack, rugged terrain, and strong, nearly continuous winter winds.

The National Outdoor Leadership School offers rock climbing instruction and outdoor educational courses in the Split Rock WSA. The school has operated under a BLM special recreation permit since 1972. In 1984, 1,345 user days were reported during spring, summer, and fall courses. Rock climbing opportunities are considered to be excellent.

Like the Lankin Dome WSA, the Split Rock WSA lies adjacent to US 287 and provides part of the scenic backdrop enjoyed by travelers on this highway. Visitors who stop at the Split Rock Interpretive Site are looking directly at the Split Rock WSA. This WSA is the most viewed of the four Sweetwater Rocks WSAs, primarily because of Split Rock itself and its proximity to the interpretive site.

Legal motorized access to the northern-most portion of the Split Rock WSA is possible by crossing contiguous public land on two-track trails. These trails can be accessed from the Dry Creek Road (Natrona County Road No. 321). Alternate trails exist that lead to more popular spots within the WSA (such as Miller Pocket), and others are more direct routes than the trails leading from Dry Creek Road. However, these cross private land and thus are not legal access routes. As a result, most visitors to the WSA cross private land to reach the area. There are six landowners adjacent to this WSA. Some visitors will attempt to contact one of the landowners to ask permission to cross private land. Others will simply trespass to get to the area. In addition, some visitors leave gates open or drive off existing trails. Most visitation occurs during the months of May through October, About 50 such incidents (visitor contacts, trespass, gates left open, etc.) occur during this period.

Wildlife

Wildlife resources for the Split Rock WSA are essentially the same as described for Lankin Dome. Habitat and species composition are similar because the WSAs have similar landforms and vegetation.

Split Rock is also historic bighorn sheep habitat. However, this WSA and Savage Peak WSA contain the forage production, potential escape cover, and potential lambing areas so that they offer the best bighorn sheep habitat of the four Sweetwater Rocks WSAs. These two WSAs provide a good mixture of rugged escape cover and forage.

Cultural Resources

A search of the cultural resource files for this WSA was conducted. Although there has been little inventory work done in the WSA, some information is available on the types of prehistoric resources present in the general area. Prehistoric hunting camps and habitations are common around the Sweetwater Rocks WSA complex, especially near water sources. Typical site types include surface chipped stone scatter, buried campsites with firepits and stone circle sites. A possible drive line and butchering site has been located in this WSA. It consists of stone cairns, stone rings and logs that were apparently used to block escape routes. A large assortment of butchering tools such as choppers and bifaces were also located on the site. One projectile point or knife was found that dates to the Late Archaic Period (1500 B.P. to 3000 B.P.).

Based on diagnostic artifacts found in and near the Sweetwater Rocks WSA complex, prehistoric Native Americans frequented this region for at least 12,000 years. The prehistoric people who produced those sites were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time at any one location. A particular cultural resource site might represent a one-time use of a location or repeated use for thousands of years.

Because of the proximity of the Sweetwater Rock WSAs to the Sweetwater River, the WSAs were prominent in the early history of this region. The Oregon and Mormon Pioneer Trail ran just south of this WSA. Diary accounts of trail emigrants commonly mention the Sweetwater Rocks. Split Rock, located in this WSA, was one of the best known landmarks along the Sweetwater River. This property is listed on the National Register and is withdrawn from all forms of mineral entry and leasing.

Trapping also occurred periodically in the area along the Sweetwater River and the WSA. An old trapper's cabin is located within the WSA in Miller's Pocket

Savage Peak

General Characteristics

Most of the Savage Peak WSA is rugged and mountainous. Large expanses of bare rock predominate

throughout. Vegetation is generally sparse, but there are some dense stands of Douglas-fir, limber pine, aspen, and cottonwood in drainages. Juniper is scattered throughout the unit. Sagebrush, rabbitbrush, and grasses are found on surrounding plains.

Wilderness Values

Size

The 7,041-acre unit is concentrated in one block in the immediate vicinity of Savage Peak.

Naturalness

The WSA contains a number of intrusions, primarily fences and vehicle ways. Several two-tracked ways penetrate the "pockets" that surround the granitic rocks. Vehicle ways traverse Martin's Cove and the southern part of Savage Pocket, as well as the pockets on the east near the Dumbell Ranch headquarters and on the south near the Sun Ranch at Devils Gate. The central or core area is penetrated by three two-track trails, all faint and generally overgrown with grasses. None detracts from the apparent naturalness of the area.

Outstanding Opportunities for Solitude and Primitive, Unconfined Recreation

The rough, broken topography and the numerous draws and small canyons offer opportunities for solitude. A large pocket on the west provides excellent opportunities for camping below Savage Peak. The pocket is well secluded from the surroundings and contains excellent scenery, which enhances the feeling of solitude. The 7,041-acre size of the area also contributes to the feeling of solitude. Vegetation is dense in places, providing seclusion or screening for visitors

Savage Peak WSA affords a variety of opportunities for primitive and unconfined types of recreation, including hiking, camping, backpacking, hunting, rock climbing, nature study, and photography.

The Savage Peak WSA contains great vertical relief. Large pockets of open grass and sagebrush on the west are surrounded by steeply rising slopes. On the east, state and private lands cover most of the lower slopes of Savage Peak and the surrounding rocks. Nonetheless, the size of the area and its diverse topography combine to provide some high quality opportunities for primitive recreation.

Special Features

Large expanses of bare granite are not found elsewhere in central Wyoming. In this WSA, they form a natural and highly scenic backdrop for the Sweetwater River Valley, which has a long history related to the exploration and early settlement of the West.

Livestock Grazing

The WSA currently provides 765 AUMs for live-stock grazing (cattle) in portions of three allotments that comprise the WSA. Table 8 lists details of the three grazing allotments in the Savage Peak WSA, and map 10 shows the locations of the allotments. The Green Mountain Rangeland Program Summary (USDI, BLM 1983a) contains a detailed description of livestock grazing management.

Geology and Mineralization

Geology

Like the Lankin Dome and Split Rock WSAs, the Savage Peak WSA is within the Granite Mountain Uplift, which is part of a large east-west trending uplift that separates the greater Green River Basin on the south from the Wind River Basin to the north. The Granite Mountains generally have been a structural high since earliest Paleocene time (see Appendix D), although the area has undergone repeated structural adjustment since that time. During Miocene and Pliocene times, portions of the area were topographically low and were the sites of deposition.

The predominant bedrock units exposed in the WSA are a medium to coarse grained biotite granite and a granitic gneiss (Tetra Tech 1983). These Precambrian granites and gneisses outcrop in the central parts of the WSA and contain intrusive dikes of basalt and pegmatites.

During Miocene time, the Split Rock Formation was deposited in the topographically low, probably undrained, portions of the Granite Mountains. The Split Rock Formation is generally less than 1,000 feet thick and consists of white to tan, fine to coarse grained sandstones and conglomerates (USDI, GS 1970). During Pliocene time, the Moonstone Formation was deposited in many of the same areas and is now found overlying the Split Rock Formation. The Moonstone reaches a maximum thickness of 1,350 feet and consists of interlayered sandstones, limestones, tuffs, conglomerates, and claystones (USDI, GS 1970), The Split Rock and Moonstone Formations surround the Precambrian core and are exposed in the outcrops along the fringes of the WSA.

TABLE 8
LIVESTOCK GRAZING ALLOTMENTS IN THE SAVAGE PEAK WSA

Mumber	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Total Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
1503	Winter Pastures	Fall-Winter- Spring	Cattle	51,808	25	90.	8,076	4	90.
1639	Ordway Pocket	Spring	Cattle	2,049	89	4	592	26	4
0205	Devil's Gate	Spring-Summer- Fall-Winter	Cattle	83,076	3,281	4	18,617	735	4

Mineralization

According to Spencer and Powers (USDI, GS 1983), there is no potential for oil and gas accumulation in this WSA.

The area surrounding the WSA contains occurrences of uranium, thorium, pumicite, sodium carbonate-sulfate, vermiculite, zeolite, and jade.

The uranium and thorium occurrences are associated with pegmatites in the Precambrian rocks and with the Tertiary sedimentary rocks of the Split Rock and Moonstone formations. Occurrences of uranium and thorium in pegmatite dikes are probably very restricted and have low potential for development.

Uranium occurrences in the Split Rock Formation appear small and localized, and little source material (volcanic ash) is present in the formation (USDI, GS 1970). For these reasons, this formation has a low to moderate potential for the occurrence of uranium. The Moonstone Formation has widespread uraniferous beds and contains more volcanic tuff beds, which could serve as a source of uranium (USDI, GS 1970). For these reasons, the Moonstone Formation has a moderate to high favorability for the occurrence of uranium.

The pumicite occurrences in and near the WSA are small, so they probably have a low potential for development.

Some lakes occupying depressions in the exposed Split Rock Formation contain sodium carbonates and sodium sulfates; however, there are no known soda lakes in the WSA.

Jade occurs in veins or dikes in the Precambrian rock or as placer concentrations in the Tertiary sediments (Tetra Tech 1983). The WSA has a moderate to high potential for the occurrence of jade.

The Tertiary Moonstone and Wagon Bed formations contain zeolite minerals in certain locations. Phillipsite is found near the top of the type section of the Moonstone Formation in section 17, T. 30 N., R. 89 W., 6th P.M., several miles northeast of the WSA, and many clay samples from the Moonstone contain clinoptilolite (USDI, GS 1970). In the vicinity of the WSA, the Wagon Bed Formation was apparently well drained during deposition and without saline/alkaline lakes (Boles and Surdam 1979). This would reduce the probability of zeolite mineral deposits in the Wagon Bed Formation in this area. The Moonstone Formation does contain the sediments of saline lakes in the WSA (USDI, GS 1970); their presence increases the possibility of finding significant zeolite minerals in the Moonstone in this area.

Other economically valuable mineral resources are not known to occur in the Savage Peak WSA. Geologic Survey of Wyoming Map Series MS-14 (1985) shows occurrences of gold, silver, and other minerals in or near the Sweetwater Rocks WSAs.

There are no oil and gas leases or mining claims in the WSA

Recreation

Recreational values in the Savage Peak WSA are significant. Extremely rough topography and rock outcrops allow for only primitive forms of recreation such as rock climbing, hiking, hunting, sightseeing, camping, and rock collecting. Although use levels are quite low, the WSA attracts users from many parts of the country (the WSA has an estimated total of 1,250 visitor days annually). Recreational ORV use is estimated to be 250 visitor days per year. ORV use depends largely on the population fluctuations of nearby Jeffrey City.

Several special recreation use permits have been issued in the area for outfitter and guide hunting operations. The WSA offers mule deer hunting, and a limited number of antelope licenses are issued each year for a hunt unit encompassing the area. Winter sports such as cross-country skiing and snowmobiling have minimal potential because of poor access and low snowpack, rugged terrain, and strong, nearly continuous winter winds.

The Savage Peak WSA lies adjacent to Wyoming Highway 220, a major tourist route from Casper and Interstate 25 to the east. Travelers use this route to connect with Us 287 to the national parks or use the route to view the historic Oregon Trail. Like Lankin Dome and Split Rock, this WSA provides a highly scenic backdrop to travelers on WYO 220 and is an inherent part of the Sweetwater Rocks described in tourist brochures. BLM's Devils Gate Interpretive Site lies directly adjacent to this WSA. This site receives over 20,000 visitors yearly.

Legal motorized access to the northern part of the Savage Peak WSA is possible by crossing contiguous public land on two-track trails. These trails can be accessed from the Dry Creek Road (Natrona County Road No. 321). Alternate roads exist that lead to more popular spots within the WSA, and others are more direct routes than the trails leading from Dry Creek Road. However, these cross private land and thus are not legal access routes. As a result, most visitors to the WSA cross private land to reach the area. There are three landowners adjacent to this WSA. Some visitors will attempt to contact one of the landowners to ask permission to cross private

land. Others will simply trespass to get to the area. In addition, some visitors leave gates open or drive off existing roads. Most visitation occurs from May to October. About 40 such incidents (visitor contacts, trespass, gates left open, etc.) occur during this period.

Wildlife

Wildlife resources for the Savage Peak WSA are essentially the same as described for the Lankin Dome WSA. Habitat and species composition are similar because the WSAs have similar landforms and vegetation.

Like the other WSAs in the Sweetwater Rocks, Savage Peak is historic bighorn sheep habitat. Two small transplants of bighorns occurred in the Sweetwater Rocks in the 1940's, probably in the Savage Peak WSA. A helicopter survey in 1983 failed to locate any bighorns.

This WSA, along with the Split Rock WSA, offers the best bighorn sheep habitat of the four WSAs in the Sweetwater Rocks. The WSA's forage production, potential escape cover, and potential lambing areas combine to provide quality bighorn sheep habitat.

Cultural Resources

A search of the cultural resource files for this WSA was conducted. Although there has been little inventory work done in the WSA, some information is available on the types of prehistoric resources present in the general area. Prehistoric hunting camps and habitations are common around the Sweetwater Rocks WSA complex, especially near water sources. Typical site types include surface chipped stone scatter, buried campsites with firepits and stone circle sites. Based on diagnostic artifacts found in and near the Sweetwater Rocks WSA complex, prehistoric Native Americans frequented this region for at least 12,000 years. The prehistoric people who produced those sites were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time at any one location, a particular cultural resource site might represent a onetime use of a location or repeated use for thousands of years.

Because of the proximity of the Sweetwater Rock WSAs to the Sweetwater River, the WSAs were prominent in the early history of this region. The Oregon and Mormon Pioneer Trail ran just south of this WSA. Diary accounts of trail emigrants commonly mention the Sweetwater Rocks. Trapping also

occurred periodically in the area along the Sweetwater River and the WSA. The foundation of an old trapper's cabin lies in Ordway Pocket on the eastern edge of this WSA.

Miller Springs

General Characteristics

Topography in the Miller Springs WSA is almost entirely rough, broken granite domes and outcrops. Sagebrush flats make up about 10% to 15% of the unit. Parts of the unit resemble a pile of huge monolithic rock masses. Although not unique to Wyoming or the west, the Sweetwater Rocks are unusual, and they provide a scenic backdrop to the historic Sweetwater Valley.

Juniper and scattered limber pine are on the rocky slopes, and aspen along the base of the rocks. Sagebrush and grasses are found on the surrounding plains. Large expanses of barren rock characterize the unit.

Wilderness Values

Size

The Miller Springs WSA is the western portion of the initial inventory area WY-030-123, which contained approximately 19,900 acres. The initial inventory area was split into two units (123a and 123b) by a road that was identified by the public. The road crosses private, state, and BLM-managed land as it traverses the unit in a north-south direction. Other roads and intrusions were identified during the initial inventory. Some narrow fingers of land extending from the unit were dropped. The total acreage dropped because of intrusions and fingers was 885 acres. After these changes, the present size of unit 123b is 6.429 acres.

Naturalness

The Miller Springs WSA is largely free of human imprints. Those that exist are confined to two-track ways and about 3/10 of a mile of fence. The ways are all on the east and northeast ends of the unit. All are in open sagebrush areas.

The trails are quite noticeable while one is traveling on them or adjacent to them. From a distance, they are not particularly noticeable and visual impact is confined to the level, sage-covered areas around the base of the rocks.

Outstanding Opportunities for Solitude and Primitive, Unconfined Recreation

The linear configuration of the WSA limits opportunity for a visitor to find isolation from others in the unit. The degree of solitude available to visitors depends on the number of visitors rather than terrain, vegetation, or size. The opportunity for solitude is limited.

The Miller Spring WSA offers opportunities for primitive recreation such as hiking, camping, rock climbing, hunting, photography, nature study, sight-seeing, and bird watching.

Primitive campsites are available in a few places where grassy meadows, shelter, and concealment are available. The lack of well-distributed quality campsites might cause some visitor overlap and confinement of use.

The WSA provides outstanding opportunities for a primitive, unconfined type of recreation. However, the opportunity for solitude is limited.

Special Features

There are opportunities to study geological and scenic attributes in this WSA. It also contains historic and archeological sites.

Livestock Grazing

The WSA currently provides 756 AUMs for live-stock grazing, spread between two allotments. Table 9 lists details of the two grazing allotments in the Miller Springs WSA, and Map 10 shows the locations of the allotments. All grazing use is by cattle. The Green Mountain Rangeland Program Summary (USDI, BLM 1983a) contains a detailed description of livestock grazing management.

Geology and Mineralization

Geology

Like the other Sweetwater Rocks WSAs, the Miller Springs WSA is within the Granite Mountain Uplift, which is part of a large east-west trending uplift separating the greater southern Green River Basin from the northern Wind River Basin. The Granite Mountains generally have been a structural high since earliest Paleocene time (see appendix D), although the area has undergone repeated structural adjustment since that time. During Miocene and Pliocene times, portions of the area were topographically low and were the sites of deposition.

The predominant bedrock units exposed in the WSA are a medium to coarse grained biotite granite and a granitic gneiss (Tetra Tech 1983). These Precambrian granites and gneisses outcrop in the central parts of the WSA and contain intrusive dikes of basalt and pegmatites.

During Miocene time, the Split Rock Formation was deposited in the topographically low, probably undrained, portions of the Granite Mountains. The Split Rock Formation is generally less than 1,000 feet thick and consists of white to tan, fine to coarse grained sandstones and conglomerates (USDI, GS 1970). During Pliocene time, the Moonstone Formation was deposited in many of the same areas and is now found overlying the Split Rock Formation. The Moonstone reaches a maximum thickness of 1,350 feet and consists of interlayered sandstones, limestones, tuffs, conglomerates, and claystones (USDI, GS 1970). The Split Rock and Moonstone formation outcrops surround the Precambrian on the fringes of the WSA.

Mineralization

According to USGS (1983), there is no potential for oil and gas accumulation in this WSA.

The area surrounding the WSA contains occurrences of uranium, thorium, pumicite, sodium carbonate-sulfate, vermiculite, zeolite, and jade.

The uranium and thorium occurrences are associated with pegmatites in the Precambrian rocks and with the Tertiary sedimentary rocks of the Split Rock and Moonstone formations. Occurrences of uranium and thorium in pegmatite dikes are probably very restricted and have low potential for development

Uranium occurrences in the Split Rock Formation appear small and localized, and little source material (volcanic ash) is present in the formation (USDI, GS 1970). For these reasons, this formation has a low to moderate favorability for the occurrence of uranium. The Moonstone Formation has widespread uraniferous beds and contains more volcanic tuff beds, which could serve as a source of uranium (USDI, GS 1970). For these reasons, the Moonstone Formation has a moderate to high favorability for the occurrence of uranium.

The pumicite occurrences in and near the WSA are small, so they probably have a low potential for development.

Some lakes occupying depressions in the exposed Split Rock Formation contain sodium carbonates and sodium sulfates; however, there are no known soda lakes within the WSA.

TABLE 9
LIVESTOCK GRAZING ALLOTMENTS IN THE MILLER SPRINGS WSA

Allotment	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Total Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
1503	Winter Pastures	Fall-Winter- Spring	Cattle	51,808	1,611	ю	8,076	251	ø
0202	Devil's Gate	Spring-Summer- Fall-Winter	Cattle	83,076	2,253	ю	18,617	505	ю

Jade occurs in veins or dikes in the Precambrian rock or as placer concentrations in the Tertiary sediments (Tetra Tech, 1983). The WSA has a moderate to high favorability for the occurrence of jade.

The Tertiary Moonstone and Wagon Bed formations contain zeolite minerals in certain locations near the WSA. Phillipsite is found near the top of the type section of the Moonstone Formation in section. 17, T. 30 N., R. 89 W., 6th P.M., which is about 1/2 mile north of the WSA. Many clay samples from the Moonstone contain clinoptilolite (USDI, GS 1970). In the vicinity of the WSA, the Wagon Bed Formation was apparently well drained during deposition and without saline/alkaline lakes (Boles and Surdam 1979). This would reduce the probability of zeolite mineral deposits in the Wagon Bed Formation in this area. The Moonstone Formation does contain the sediments of saline lakes in the WSA (USDI, GS 1970); their presence increases the possibility of finding significant zeolite minerals in the Moonstone in this area.

Economically valuable mineral resources are not known to occur in the WSA. Geologic Survey of Wyoming Map Series MS-14 (1985) shows occurrences of gold, silver, and other minerals in or near the Sweetwater Rocks WSAs.

There are no oil and gas leases or mining claims in the Miller Springs WSA.

Recreation

Recreational values in the Miller Springs WSA are significant. Extremely rough topography and rock outcrops allow for only primitive forms of recreation such as rock climbing, hiking, hunting, sightseeing, camping, and rock collecting. Although use levels are quite low, the WSA attracts users from many parts of the country (the WSA has an estimated 500 visitor days annually). Recreational ORV use is estimated to be 250 visitor days per year. ORV use depends largely on the population fluctuations of nearby Jeffrey City.

Several special recreation use permits have been issued in the area for outfitter and guide hunting operations. The WSA offers mule deer hunting, and a limited number of antelope licenses are issued each year for a hunt unit encompassing the area. Winter sports such as cross-country skiing and snowmobiling have minimal potential because of poor access and low snowpack, rugged terrain, and strong, nearly continuous winter winds.

Like the Savage Peak WSA, the Miller Springs WSA lies adjacent to WYO 220, a major tourist route from Casper and Interstate 25 to the east. This WSA is the farthest removed from a highway, but still provides a scenic backdrop to travelers.

Legal motorized access to the eastern-most tip of the Miller Springs WSA is possible by crossing contiquous public land on two-track trails. These trails can be accessed from the Dry Creek Road (Natrona County Road No. 321). Alternate roads exist that lead to more popular spots within the WSA, and others are more direct routes than the trails leading from Dry Creek Road. However, these cross private land and thus are not legal access routes. As a result, most visitors to the WSA cross private land to reach the area. There are three landowners adjacent to this WSA. Some visitors will attempt to contact one of the landowners to ask permission to cross private land. Others will simply trespass to get to the area. In addition, some visitors leave gates open or drive off existing roads. Most visitation occurs from May through October. About 40 such incidents (visitor contacts, trespass, gates left open, etc.) occur during this period.

Wildlife

Wildlife resources for the Miller Springs WSA are essentially the same as described for Lankin Dome. Habitat and species composition are similar because the WSAs have similar landforms and vegetation. The Miller Springs WSA contains no further unique or special wildlife resources other than those already described for Lankin Dome.

Cultural Resources

A search of the cultural resource files for this WSA was conducted. Although there has been little inventory work done in the WSA, some information is available on the types of prehistoric resources present in the general area. Prehistoric hunting camps and habitations are common around the Sweetwater Rocks WSA complex, especially near water sources. Typical site types include surface chipped stone scatter, buried campsites with firepits and stone circle sites. Based on diagnostic artifacts found in and near the Sweetwater Rocks WSA complex, prehistoric Native Americans frequented this region for at least 12,000 years. The prehistoric people who produced those sites were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time at any one location. A particular cultural resource site might represent a onetime use of a location or repeated use for thousands of years.

Because of the proximity of the Sweetwater Rock WSAs to the Sweetwater River, the WSAs were prominent in the early history of this region. The Oregon and Mormon Pioneer Trail ran just south of this

WSA. Diary accounts of trail emigrants commonly mention the Sweetwater Rocks. Trapping also occurred periodically in the area along the Sweetwater River and the WSA.

Copper Mountain

General Characteristics

The Copper Mountain WSA is in Fremont County, about 10 miles north of Shoshoni. It lies east of Boysen Dam, at the upper end of the Wind River Canyon, and is bounded on the west by the Wind River Indian Reservation, on the south and north by private and state lands on Birdseye and Cottonwood Creek, and on the east by the Birdseye Pass County Road and a ranch (see Map 10). U.S. Highway 789 and the Thermopolis to Alcova power line cross the southwest corner of the unit. The Copper Mountain WSA is part of the Copper/Birdseye Pass area of the Copper Mountain Range, also known as the Bridger Mountains.

The topography of the entire WSA is mountainous. Rugged mountains rise from 5,000 feet to 6,400 feet, and steep canyons and rocky slopes dominate the unit. Total relief in the unit is 1,400 feet (see photos 5 and 6).

Wilderness Values

Size

The Copper Mountain WSA contains 6,858 acres —more than 10 square miles—of contiguous public land

Naturalness

For all practical purposes, the Copper Mountain WSA is natural. A small fenceline and some rundown drift fences are located in two mountain passes, but they blend into the overall view; therefore, these intrusions do not affect the area's naturalness.

Outstanding Opportunities for Solitude and Primitive, Unconfined Recreation

The Copper Mountain WSA offers outstanding opportunities for solitude, but noise emanates from truck traffic on U.S. Highway 20/Wyoming Highway 789. The rough topography, steep drainages, rocky outcrops, and tree cover in some areas screen visitors from one another, making it easy to find seclusion. The potential for recreation is outstanding; it includes hiking, hunting, and sightseeing for geological features. From the tops of the mountain and ridges, Boysen Reservoir is visible.



Photograph 5: Looking east along an outcrop of sedimentary rock in Copper Mountain WSA.



Photograph 6: Juniper-covered slopes in a northward view-Copper Mountain WSA.

The topography offers a challenge and a strenuous walk for day hikers or backpackers as well as for nontechnical rock climbers. Both large and small game species inhabit the area.

Special Features

The Wind River Basin and Boysen Reservoir, which are south and west of the WSA, offer spectacular views. From the mountain peaks one can see a distance of 10 to 50 miles. The view includes the Wind River Mountains and Beaver Rim.

Good opportunities exist for the educational and scientific study of the ecological communities within the area. A variety of geological features can be studied in the WSA.

Livestock Grazing

The Copper Mountain WSA currently provides 635 AUMs for livestock grazing in two allotments. All of the grazing use is by cattle. Table 15 lists details of the two grazing allotments in the Copper Mountain WSA and Map 12 shows the locations of the allotments. The Lander RMP/EIS grazing supplement (USDI, BLM 1985c) contains a detailed description of the proposed livestock grazing management.

Geology and Mineralization

Geology

The Copper Mountain WSA is at the north edge of the Wind River Basin and the southern flank of the Bridger Mountains. The area has been extensively faulted parallel to the Bridger Mountains and is thrust faulted at depth.

Precambrian rocks and Paleozoic sedimentary rocks ranging from Cambrian to Pennsylvanian are exposed in the WSA, as are the Tertiary Wind River Formation and Quaternary alluvium and colluvium.

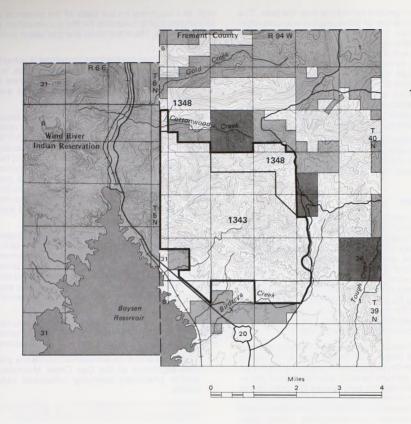
The Flathead sandstone of middle Cambrian age (see appendix D) is the basal sedimentary unit in this area and the oldest unit exposed. The Flathead consists of sandstone with minor siltstone and some conglomerate. The Gros Ventre Formation overlies the Flathead and consists of siltstone, fine-grained sandstone, and some local beds of limestone in the upper part. The Gallatin Limestone of late Cambrian age unconformably overlies the Gros Ventre and consists of thin-bedded silty and sandy limestone, with some limestone pebble conglomerates (Tetra Tech 1983)

The Bighorn Dolomite of late and middle Ordovician consists of fine grained massive dolomite with

AFFECTED ENVIRONMENT

TABLE 10
LIVESTOCK GRAZING ALLOTMENTS IN THE COPPER MOUNTAIN WSA

Motment	Allotment	Season of Use	Kind of Livestock	Total Federal Acres	Number of Federal Acres in WSA	Percent of Federal Acres in WSA	Total Federal AUMs	Number of Federal AUMs in WSA	Percent of Federal AUMs in WSA
343	Tuff . oek	Winter-Spring Pasture	Cattle	16,690	5,752	34	1,270	437	26
348	John Herbst	Summer-Fall Summer	Cattle	1,720	1,106	64	308	198	64





AFFECTED ENVIRONMENT

lenses of fine grained sandstone near the base. The Madison Limestone of Mississippian age unconformably overlies the Bighorn and consists of fine grained argillaceous limestone and dolomite and sporadic lenses of sandstones. The Amsden Formation of early to middle Pennsylvanian and late Mississippian age consists of a lower, thin-bedded, clayey siltstone; a middle-fine to medium grained friable sandstone; and an upper dolomite. The Tensleep Sandstone of middle Pennsylvanian consists of slightly dolomitic and clayey-fine to mediumgrained sandstone (Tetra Tech 1983).

The Wind River Formation of early Eocene unconformably overlies the Paleozoic sediments and consists of beds of sandstone, siltstone, claystone, conglomerate, and local coal beds.

Mineralization

Colorado Interstate Gas Exploration's (CIGE) abandoned well number 1-4-39-94 is adjacent to the WSA in NW4NE'4, section 4, T. 39 N., R. 94 W., 6th P.M. (see Map 13). This well was drilled to a depth of 17,550 feet, and was completed in April 1980 in the Mesaverde Formation at 12,874 to 13,749 feet for an initial production of 59 mcf of gas per day. The Cody-Niobrara Formations were drill stem tested at rates varying from 1,100 to 1,300 mcf of gas per day. The Frontier Formation was production tested at 200 mcf of gas per day for 17 hours. The well was temporarily abandoned in January 1982.

The CIGE well is the only well in this area that has penetrated a thrust fault deeper than 6,140 feet. It was drilled on the basis of information that indicated a structural closure beneath the thrust fault. However, it is believed the well missed the crest of the geologic structure, so there may be potential for a future gas discovery. Other dry holes have been drilled in the area, but none were drilled deep enough to penetrate the thrust fault.

Two relative rating systems for hydrocarbon potential are described in appendix F. According to Spencer and Powers (USDI, GS 1983), the lands in the Copper Mountain WSA have a low potential for oil and gas. On the basis of experience with the CIGE well no. 1-4-39-94, these lands probably should be rated moderate. Since this well is the only one to have penetrated the thrust fault in this area, subsurface control can be considered sparse. The well tests from the Cody and Mesaverde Formations show that the environment is highly favorable for the occurrence of gas. However the area is not in line with existing production from similar traps and, according to the USGS (1983), the WSA cannot be put into the high-potential category.

The Lander Resource Area RMP/EIS (USDI, BLM 1985b) rates the oil and gas potential for the area as

high and moderate on the basis of the presence of formations highly favorable for the accumulation of hydrocarbons. There are no oil and gas leases in the WSA.

Limestone from the Madison limestone is suitable for cement or industrial and agricultural lime, but availability of the limestone elsewhere, distance to potential markets, and inaccessibility in this area make the development potential low.

Inactive uranium prospects and mines are found in both Eocene sediments and Precambrian rocks to the east of the WSA in T. 40 N., R. 92 W., 6th P.M. Uranium in the Teepee Trail Formation is associated with hematitic alteration halos and carbon trash (Yellich, Cramer, and Kendall 1978). Uranium occurrences in the Precambrian rocks are found at geochemical interfaces between descending uranium-carrying oxidized water systems and underlying reducing systems (Yellich, Cramer, and Kendall 1978).

Precambrian rocks are not exposed in the Copper Mountain WSA. However, Precambrian rocks to the east of the WSA contain a broad variety of mineral resources such as iron, copper, gold, silver, tungsten, feldspar, tantalum, beryl, lithium, and rare earth elements. Several mines, some within the past 10 years, have been developed to extract these minerals.

Hesse (1982) considers the Wind River Formation along the north edge of the Wind River Basin as favorable for uranium deposits for the following reasons:

There is a potential uranium source in the granitic highlands of the Owl Creek Mountains and/or previously overlying tuffaceous sediments.

A host rock of permeable arkosic sandstone is interbedded with siltstone and mudstones.

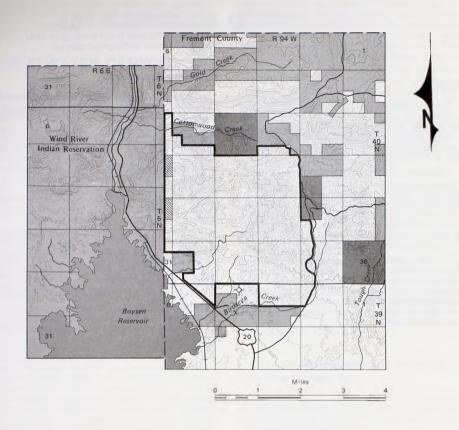
A reducing agent is available from nearby petroleum fields.

There are traces of pyrite and kaolinization of feldspars in the subsurface. Approximately 1,500 acres are underlain by the Wind River Formation in a band along the southern portion of the WSA, along Birdseye Creek near the eastern border.

Other mineral occurrences are given a low favorability classification in the Copper Mountain WSA.

Recreation

The primary recreational activities in the Copper Mountain WSA are hunting for mule deer, sightseeing, and some rock collecting. The area provides average quality deer hunting for central Wyoming.





AFFECTED ENVIRONMENT

The lack of water in the area limits the distribution of hunting opportunities. Visitation is estimated to be quite low (100 visitor days annually) because the area is remote and dry. There are no roads in the WSA at the present time. No recreational ORV use is known to occur in the Copper Mountain WSA.

Wildlife

Wildlife habitat on the Copper Mountain WSA can be classified as a Utah Juniper Woodland Standard Habitat Site. Tall, open stands (7-15 feet tall) of Utah juniper usually associated with saltbush, sagebrush, rabbitbrush, and several grass species are characteristic of this habitat.

The northern portion of the WSA is classified as crucial winter range for mule deer, and the remainder of the WSA is yearlong winter range. The majority of the WSA is yearlong habitat for antelope. The southern portion of the WSA along Birdseye Creek is crucial winter range, and the northern edge is spring, summer, and fall range. The WSA receives only occasional elk use during the summer.

The WSA supports cottontail rabbits and chukars. These two species use a variety of habitat types, preferring the rock outcrops and rocky cliffs interspersed with grasses and sagebrush. Jackrabbits, coyotes, bobcats, red foxes, and several other species of small mammals, and raptors are common throughout the WSA.

Although the WSA is within the range of bald eagles, peregrine falcons and black-footed ferrets, no documented sightings of these species have occurred, and the area is not considered to be prime habitat for these endangered species.

Cultural Resources

Information concerning cultural resources in the Copper Mountain WSA has been obtained from a literature review. No cultural resource field inventories have been conducted within this WSA, and no sites are known to be located within the WSA. A few inventories have been conducted near the WSA, and the cultural resources found have been small historic and prehistoric sites. Most have been considered ineligible for nomination to the National Register. Based on the types of sites found, it appears that the prehistoric people who occupied the WSA were hunters and gatherers whose movements were, to a large degree, determined by seasonal changes in resource availability. These people generally traveled in small bands, spending only a limited amount of time in any one location. A particular cultural resource site might represent a one-time use of a location or repeated use for thousands of years. Diagnostic projectile points indicate nearly continuous use of the general area for the last 12,000 years.

The route of the Birdseye Pass Stage Line (in operation from the 1880s to early 1900s) runs along the east boundary of the WSA. This is now an upgraded road.

CHAPTER 4

ENVIRONMENTAL CONSEQUENCES

SWEETWATER CANYON

Proposed Action (Partial Wilderness)

Wilderness values on 5,538 acres of the WSA would be protected by legislative mandate, while 3,518 acres would not receive the special legislative protection provided by wilderness designation.

Recommended Portion

Impacts on Wilderness Values

Under the Proposed Action, the 5,538 acres proposed for wilderness would be withdrawn from all forms of mineral entry, subject to valid existing rights at the time of designation. It is assumed that locatable mineral (gold) claims on 720 acres in the portion recommended for wilderness would hold valid discoveries. However, because of the small amount of gold-bearing vein rock in the WSA and the low gold concentration in the gravels of the Sweetwater River, the only activity that is expected on these claims would be the annual assessment work. This would include panning, operating handpowered sluice boxes, and hand-sampling small amounts of ore. Such activity would result in small spoil piles and excavations (less than a cubic meter each) totaling less than 5 acres over the long term. Although this would adversely affect the wilderness value of naturalness, the impact would be insignificant because the surface disturbance would be spread out over 720 acres in the western part of the WSA and would occur over the course of several years. The disturbance would not be readily visible to the casual observer.

Approximately two miles of two-track vehicle trails would be closed and returned to natural conditions. This would amount to around 150 acres returned to natural conditions. Additionally, the perception of naturalness would be enhanced on 1,000 acres, the estimated areas in which at least a portion of the trails could be seen by the casual visitor. The wilderness value of naturalness would thus be enhanced on 1,000 acres from the vehicle trail closure.

In addition to naturalness, the vehicle closure on 5,538 acres would benefit the wilderness value of outstanding opportunities for solitude and primitive recreation. An estimated 100 visitor days annually of recreational ORV use would be eliminated from the wilderness portion of the WSA. Although encounters between recreational ORV users and other recreationists are infrequent at current levels of use, the elimination of ORV use would benefit the wilderness value of solitude because visitors seeking solitude and primitive recreation experiences would not encounter or hear ORV users in the area.

The WSA's special feature of high scenic value is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic values would be affected to the same degree as naturalness.

Conclusion: Annual assessment work on 720 acres of mining claims would result in less than five acres of surface disturbance over the long term. The impact of this action on the wilderness value of naturalness would be negligible. Wilderness values of naturalness, solitude, and primitive recreation would be enhanced by the elimination of vehicle use in 5,538 acres recommended for wilderness. The special feature of scenic quality would be affected to the same degree as naturalness.

Impacts on the Development of Energy and Mineral Resources

The 5.538 acres recommended for wilderness would be withdrawn from all forms of mineral entry and leasing subject to valid existing rights at the time of designation. There is no potential for oil and gas within the WSA. There are currently 720 acres covered by mining claims within the 5,538 acres proposed for wilderness. It is assumed that the claims would hold valid discoveries. However, because of the small amount of gold bearing vein-rock in the WSA and the gold concentration in the gravels of the Sweetwater River, the only activity expected on these claims would be the annual assessment work. This would consist of panning, hand-operated sluice boxes, and hand-sampling small amounts of ore. Assessment work on valid claims is allowed under BLM's wilderness management policy and consequently would be allowed to continue.

Conclusion: Under the Proposed Action, mining activity would continue at current projected levels. There would be no significant impact on mineral resources

Impacts on Recreational ORV Use

An estimated 100 visitor days annually of recreational ORV use would be eliminated from two miles of vehicle trails on 5,538 acres proposed for wilderness designation under this alternative. Future opportunities would be forgone because vehicles would no longer be allowed in the area. Vehicular access to the river within the WSA would be eliminated. There are three vehicle trails within the WSA leading to the river which would be closed. Only one actually goes to the river while the other two end at the canyon rim above the river. As a result, fisherman and other recreationists would be required to walk up to 11/2 miles to reach the river. This would not be expected to significantly affect visitation in the portion of the WSA recommended for wilderness because most visitors currently walk to the river. Vehicle access to the river would still be available at either end of the WSA.

Conclusion: ORV use of 100 visitor days annually would be eliminated from two miles of vehicle trail on 5,538 acres. This is not regarded as a significant impact because such use would be easily absorbed on adjacent public land.

Nonrecommended Portion

Impacts on Wilderness Values

The 3.518 acres of the WSA recommended for nonwilderness would be open to oil and gas leasing, subject to standard mitigation guidelines. However, there is no potential for oil and gas in this portion of the WSA so no exploration or development would be expected. No large scale development (development on a scale larger than annual assessment work) is expected on the 280 acres of mining claims in this portion of the WSA, because of the small amount of gold-bearing vein rock in the WSA. However, annual assessment work (identical to that described earlier) would result in small excavations and spoil piles less than a cubic meter in size, totalling a maximum of five acres over the long term. The impacts of this action on wilderness values would be negligible because the disturbance would be spread over 280 acres and would occur over the course of several years.

Sights and sounds from recreational ORV use in the nondesignated portion of the WSA would have

an adverse impact on solitude and primitive recreation. The impact would be minimal because ORV use is estimated to be only 150 visitor days annually and would remain below 250 days annually as the displaced ORV use is absorbed to areas outside of he designated portion of the WSA. Additionally, most ORV use would occur during the fall months (hunting seasons) when the majority of wilderness-type visitors would be absent.

The WSA's special feature of high scenic value is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic values would be affected to the same degree as naturalness.

Conclusion: Annual assessment work on 280 acres of mining claims would result in less than 5 acres of surface disturbance over the long term. The impact of this action on the wilderness value of naturalness would be negligible. The wilderness values of solitude and primitive recreation would be adversely affected by continued ORV use, but the impact would be minimal because use levels are low and the chances for encounters between ORV users and users seeking primitive recreation experiences would be low. The special feature of scenic quality would be affected to the same degree as naturalness.

Impacts on the Development of Energy and Mineral Resources

The 3,383 acres recommended for nonwilderness would remain open to mineral entry and leasing. There is no potential for oil and gas. Annual assessment work would continue on the 280 acres covered by existing claims within the 3,383 acres of nonwilderness, but no other development is expected because of the small amount of gold-bearing vein rock in the WSA. Mining claims could be located on the 3,383 acres of nonwilderness, but again, the likelihood of development is low for reasons discussed above and due to the lack of potential for other minerals.

Conclusion: Under the Proposed Action, the 3,383 acres of nonwilderness would remain open to mineral entry and leasing; consequently, there would be no impact. However, there is little potential for any exploration or development.

Impacts on Recreational ORV Use

Recreational ORV use on the 3,383 acres proposed for nonwilderness would be limited to approximately two miles of existing trails. Current use is estimated to be 150 visitor days annually and it is

projected that use would remain below 250 visitor days annually for the foreseeable future. Some of the increase in use would be attributable to the displaced ORV use in the designated portion being absorbed in the nondesignated portion.

Conclusion: There would be no significant impacts on ORV use on 3.518 acres.

Adverse Impacts Which Cannot Be Avoided

There are no projected management actions or surface-disturbing activities that will result in any significant unavoidable adverse impacts. The minimal mineral assessment work associated with the mining claims in the WSA will result in only negligible adverse impacts that will be temporary in nature.

Relationship Between Short-term Use of the Environment and the Maintenance and Enhancement of Long-term Productivity

For the portion not designated wilderness, all present, short-term uses would continue. Existing activities would have no effect on long term productivity. Off-road vehicle use, mining, and mineral leasing activities could result in the loss of wilderness values over the long term but are not projected to be of a magnitude that would result in a significant impact.

For the portion designated wilderness, it would ensure the long-term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by an area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to a validity examination.

Irreversible and Irretrievable Commitment of Reosurces

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of a WSA, if not designated wilderness. Wilderness designation would not create an irretrievable commitment of resources within a WSA. Designation would restrict or stop development activities and maintain an area's natural condition. If, in the future, Congress decided it

would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

No Wilderness Alternative

The entire WSA would be recommended for nonwilderness designation and none of the wilderness values on 9,076 acres would receive the special legislative protection provided by wilderness designation.

Impacts on Wilderness Values

No oil and gas exploration or development is expected. No large-scale development (development on a scale larger than annual assessment work) of locatable minerals is expected because of the small amount of gold-bearing vein rock in the WSA and the low gold concentration in the gravels of the Sweetwater River, However, annual assessment work on about 1,000 acres of existing claims would continue and would disturb an estimated 10 acres over the long term. Such activity, including panning, hand-operated sluice boxes, and handsampling of small amounts of ore, would result in small excavations and spoil piles of less than a cubic meter in size. The wilderness value of naturalness would be reduced on less than 1% of the WSA because the surface disturbance would be spread over a large area (1,000 acres) and would occur over the course of several years.

Sights and sounds from recreational ORV use would have an adverse impact on the wilderness values of solitude and primitive recreation. However, ORV users and other users would be separated both spatially and temporally. Most of the ORV use within the WSA occurs either at the Strawberry Creek crossing or remains above the canyon rim. Other recreation activities would be concentrated within the canvon along the Sweetwater River. Additionally, the majority of ORV use is associated with hunting during the fall months when few backpackers and solitude seekers are in the area. As a result, contacts between ORV users and other recreationists would be infrequent and less than 1% of the WSA's wilderness value of solitude and primitive recreation would be affected. Presently, ORV use is estimated to be 250 visitor days annually and is expected to remain below 300 visitor days annually for the foreseeable future.

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would be affected to the same degree and naturalness.

Conclusion: Mining claim assessment work would impact about 10 acres of soil and vegetation, reducing naturalness by less than 1%. Continued ORV use would impact solitude and primitive recreation, again less than 1% of the WSA. The special feature of scenic quality would be affected to the same degree as naturalness. Consequently, wilderness values would not be significantly affected.

Impacts on the Development of Energy and Mineral Resources

Under the No Wilderness Alternative, the entire 9,056 acres of the Sweetwater Canyon WSA would be open to oil and gas leasing. Approximately 5,000 acres (centering around the canyon) would be subject to the No Surface Occupancy Stipulation. Because of the lack of potential for the accumulation of oil and gas resources within the WSA, no exploration or development is anticipated.

Under the No Wilderness Alternative, 5,000 acres of the WSA would be subject to a locatable mineral withdrawal. The withdrawal area roughly corresponds to the partial wilderness boundary. It is assumed that the existing mining claims covering 720 acres would contain valid discoveries of gold, and would thus be available for development. However, the only activity expected on these claims would be the annual assessment work such as described earlier. Other opportunities would be forgone.

The remaining 4,056 acres in the WSA would remain open to locatable mineral entry. There are about 280 acres covered by claims in this portion of the WSA. Because of known resource values in this portion of the WSA, the only activity expected on these claims would be the annual assessment work.

Conclusion: There would be no significant impact on locatable minerals.

Impacts on Recreational ORV Use

Under this alternative, recreational ORV use would be limited to 3½ miles of existing roads and trails over the entire WSA. Because of the area's isolation from major population centers, ORV use in the WSA is expected to remain below 300 visitor days annually in the foreseeable future.

Conclusion: There would be no significant impact on recreational ORV use.

All Wilderness Alternative

Impacts on Wilderness Values

Wilderness values on the entire 9.056-acre Sweetwater Canvon WSA would receive the special legislative protection provided by wilderness designation. The entire WSA would be withdrawn from all forms of mineral entry and leasing, subject to valid existing rights at the time of designation. It is assumed that existing mining claims covering about 1,000 acres within the WSA would represent a valid right, but that activity would be limited to the annual assessment work as earlier described. This would result in 10 acres of surface disturbance over the long term including small excavations and spoil piles (less than one cubic meter each). The impact of this action would be minimal because the disturbance would be spread over a large area (9.056 acres) and over the course of several years. The disturbance would not be readily visible to the casual observer.

About 3½ miles of two-track vehicle trails would be closed and returned to natural conditions. This would amount to about 275 acres returned to natural conditions. Additionally, the perception of naturalness would be enhanced on 1,500 acres, the estimated area in which at least a portion of the trails could be seen by a casual visitor. The wilderness value of naturalness would thus be enhanced on 1,775 acres from the vehicle trail closure.

In addition to naturalness, the vehicle closure on 9,056 acres would benefit the wilderness value of outstanding opportunities for solitude and primitive recreation.

An estimated 250 visitor days annually of recreational ORV use would be eliminated by wilderness designation. Although encounters between ORV users and other recreationists are infrequent at current use levels, the elimination of ORVs would benefit the wilderness values of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area.

The WSA's special feature of high scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic values would be affected to the same degree as naturalness.

Conclusion: Wilderness values of naturalness and solitude would be protected on the entire 9,056-acre Sweetwater Canyon WSA. There would be no negative impact on wilderness values.

Impacts on the Development of Energy and Mineral Resources

The entire WSA would be withdrawn from mineral leasing. No interest has been shown in drilling within the WSA, and it has been identified as having no potential. Future opportunities to explore for oil and gas resources on 9,056 acres would be forgone.

The entire area would be withdrawn from mineral entry. It is assumed that the existing claims within the WSA would represent valid rights. However, because of the small amount of gold-bearing vein rock in the WSA and the low gold concentration in the gravels of the Sweetwater River, the only activity expected on these claims would be the annual assessment work described earlier.

Conclusion: There would be no significant impact on mineral resources or on projected energy resources.

Impacts on Recreational ORV Use

An estimated 250 visitor days annually of recreational ORV use would be eliminated from 31/2 miles of vehicle trails on the 9,056 acres proposed for wilderness designation under this alternative. Future opportunities would be forgone. ORV use displaced from the WSA upon designation would be absorbed without consequence on the surrounding public land. Vehicular access to the river within the WSA would be eliminated. There are three access trails leading to the river which would be closed. Only one actually goes to the river while the other two end at the canyon rim above the river. As a result, fishermen and other recreationists would be required to walk up to two miles to reach the river. This would not be expected to affect visitation in the portion of the WSA recommended for wilderness because most visitors currently walk to the river.

Conclusion: Recreational ORV use of 250 visitor days annually would be forgone. There would be no significant impact.

LANKIN DOME

Proposed Action—No Wilderness (No Action)

Impacts on Wilderness Values

Under the Proposed Action, none of the wilderness values on 6,316 acres would be given the special legislative protection afforded to designated wilderness. Sights and sounds from recreational ORV use would have an adverse impact on solitude and primitive recreation but the impact would be minimal with less than 10% of the WSA affected (less than 600 acres). Recreational ORV use levels are low (50 visitor days per year) and contacts between ORV users and other recreationists would be infrequent because the two users are indifferent parts of the WSA.

There is no potential for oil and gas resources in the Lankin Dome WSA, so wilderness values would not be affected by oil and gas exploration or development activities. Given current market conditions, it is unlikely that any exploration or development for uranium, thorium, zeolites, or sulfate minerals would occur in the foreseeable future.

Regarding mineral development, surface disturbance from assessment work (hand-sampling) and extraction of small amounts of ore (up to 100 pounds per year) on the one jade claim located in the southeastern portion of the WSA would be limited to less than 5 acres over the long term. No roads would be needed. The wilderness value of naturalness would be adversely affected on less than 1% of the WSA (less than 60 acres).

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus the WSA's scenic quality would be affected to the same degree as naturalness.

No other management actions are anticipated that would negatively affect the WSA's wilderness values in the foreseeable future.

Conclusion: ORV use would adversely affect the wilderness value of solitude and primitive recreation on less than 10% (less than 600 acres) of the Lankin Dome WSA. Assessment work and extraction of small amounts of jade on one claim would affect the wilderness value of naturalness on less than 1% (less than 60 acres) of the WSA. Neither are considered to be significant impacts on the WSA's wilderness values.

Impacts on the Development of Energy and Mineral Resources

The entire 6,316 acres of the Lankin Dome WSA would be open to oil and gas leasing. However, because there is no potential for oil and gas in the WSA, no exploration or development is anticipated.

The entire WSA would remain open to locatable mineral entry. All potential locatable mineral resources would be available for exploitation. However, the only activity expected is the annual assessment work on the one existing jade claim. No other exploration or development activities would be expected.

Conclusion: The entire 6,316-acre Lankin Dome WSA would remain open to mineral entry and leasing. There would be no significant impact on mineral resources or on projected energy resources.

Impacts on Local Ranching Operations

Under the Proposed Action, recreational ORV use would be limited to the 2½ miles of existing two-track trail. Signs would be placed at strategic locations specifying the restrictions. Overall visitation is expected to remain stable at around 250 visitor days annually for the next ten years of which there is 50 visitor days of recreational ORV use. There would be no displacement of vehicle-dependent recreation onto private land because overall use is not expected to change. Contacts between the three adjacent landowners and recreationists would continue at estimated current level of 50 per year. No change is anticipated from present levels. These contacts would include personal requests for permission to cross or use private property, trespassers, and gates left open. The contacts would continue to be concentrated during the months of May through October.

Conclusion: No increased conflict or impact is expected. Consequently there would be no impact on ranching operations.

Adverse Impacts Which Cannot be Avoided

There are no projected management actions or surface-disturbing activities that will result in any significant unavoidable adverse impacts. The minimal mineral assessment work associated with the one mining claim in the WSA will result in only negligible adverse impacts that will be temporary in nature.

Relationship Between Short-term Use of the Environment and the Maintenance and Enhancement of Long-term Productivity

If this WSA is not designated wilderness, all present, short-term uses would continue. Off-road vehicle use, mining, and mineral leasing activities could result in the loss of wilderness values over the long term. However, increases in these activities are not expected.

If the area is designated wilderness, it would ensure the long-term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by the area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to validity examination or future Congressional actions.

Irreversible and Irretrievable Commitment of Reosurces

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of the WSA, if not designated wilderness. Wilderness designation would not create an irretrievable or irreversible commitment of resources within the WSA. Designation would restrict or stop development activities and maintain the area's natural conditions. If, in the future, Congress decided it would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

All Wilderness Alternative

Impacts on Wilderness Values

Under the All Wilderness Alternative, wilderness values on the entire 6.316-acre Lankin Dome WSA

would be given the special legislative protection granted to designated wilderness. The area would be withdrawn from all forms of mineral entry and leasing, subject to valid existing rights at the time of designation. It is assumed that the existing lade claim within the WSA would contain a valid discovery, but because of current market conditions and known resource values in the WSA, the only activity expected would be the annual assessment work and extraction of very small amounts of ore. This would result in less than five acres of surface disturbance (small excavations and spoil piles of less than a cubic meter) over the long term. Impacts to the wilderness value of naturalness would be negligible because the disturbance would occur over the course of several years, disturbing less than 1% of the WSA (less than 600 acres).

An estimated 50 visitor days annually of ORV use would be eliminated from the WSA. About 2½ miles of two-track trail would be closed. Encounters between ORV users and other recreationists are infrequent at present levels of use because the ORV use occurs in the flats below the rocks while other recreation uses occur in the rocks themselves. However, the elimination of ORVs would benefit the wilderness values of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area. The estimated 5% increase in non-motorized forms of recreation would not affect wilderness values because use is presently low and would be fairly evenly distributed throughout the entire 6,316 acres of the WSA.

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would be affected to the same degree as naturalness.

Conclusion: Wilderness values would be protected on the entire 6.316-care Lankin Dome WSA.

Impacts on the Development of Energy and Mineral Resources

Under the All Wilderness Alternative, the entire WSA would be withdrawn from all forms of mineral entry and leasing. It is assumed that the existing jade claim within the WSA would contain a valid discovery. However, because of current market conditions and known resource values in the WSA, the only activity expected would be annual assessment work and extraction of very small amounts of ore (less than 100 pounds per year).

Other opportunities to explore for and develop potential locatable minerals would be forgone. The WSA has no potential for oil and gas resources, so no development of these resources would be forgone.

Conclusion: There would be no significant impact on mineral or energy resources.

Impacts on Local Ranching Operations

An estimated 50 visitor days annually of recreational ORV use would be eliminated from the WSA. Future opportunities for ORV-related recreation would be forgone. Most, if not all, of the vehicledependent recreation use would be displaced onto adjacent private land. The private land contains similar ORV opportunities as occurs in the WSA and there is little substitutable public land in the immediate area. In addition, it is estimated that there would be a 5% increase in nonmotorized forms of recreation in the WSA (to 210 visitor days annually) due to wilderness designation and the resultant increase in promotion by tourism groups. The increase in use would not adversely affect the recreation experience in the WSA because the use would be fairly evenly distributed throughout the entire WSA. However, displacement of vehicledependent recreation onto adjacent private land and the expected increase in nonmotorized use would result in the adjacent landowners experiencing an increase in the number of public contacts occurring during the summer months.

There are three landowners adjacent to the Lankin Dome WSA. It is estimated that the landowners would receive an additional ten contacts (for a total of 60) with the public during the months of May through October. This would be a 20% increase from the estimated level of 50 per year. Contacts or problems would occur in several forms, including persons making face-to-face or telephone contacts asking permission to cross private land, confrontations with trespassers, and gates left open.

Although the incremental increase in the number of contacts is small, it is significant to the land-owners in the following ways. Even a small increase in contacts is seen by the landowners as an intrusion into their ranching operation. Time spent dealing with inquiries, trespassers, open gates, or relocating livestock means time spent away from their ranching operation and additional costs such as repairing gates, and replacing signs. Unpleasant confrontations between landowners and recreationists who are refused access would increase. Landowners would devote additional time and effort in trespass prevention, signing private land, patrols, closing gates, and retrieving livestock.

Cumulatively, a particular landowner would be subject to additional contacts associated with the other three WSAs in the Sweetwater Rocks complex. For example, it is estimated that one landowner would receive an additional 12 contacts on three of the WSAs in the Sweetwater Rocks each year. Given

that the use season for the WSAs is compressed into less than half of the year, this would be a significant intrusion into that landowner's ranching operation.

Conclusion: The 20% increase (from 50 to 60) in contacts between the public and landowners would result in increased disruption of the local landowner's ranching operation.

SPLIT ROCK

Proposed Action—No Wilderness (No Action)

Impacts on Wilderness Values

Under the Proposed Action, none of the wilderness values on 12,789 acres would be given the special legislative protection afforded to designated wilderness. Sights and sounds from recreational ORV use would have an adverse effect on the wilderness value of solitude and primitive recreation but the impact would be minimal because recreational ORV uselevels are low (250 visitor days annually) and contacts between ORV users and other recreationists would be infrequent because they use different parts of the WSA. Less than 10% of the WSA (less than 1,200 acres) would be affected. ORV users would be limited to the flats below the rocks while more primitive forms of recreation would occur in the rocks themselves.

There is no potential for oil and gas resources in the Split Rock WSA, so wilderness values would not be affected by oil and gas exploration or development activities. Given current market conditions, it is unlikely that any exploration or development for uranium, thorium, or zeolites would occur in the foreseeable future.

Surface disturbance for assessment work (handsampling) and extraction of small amounts of jade (up to 100 pounds per year) on the one claim located in the central portion of the WSA would be limited to less than five acres over the long term. No roads would be needed. The wilderness value of naturalness would be adversely affected on less than 1% (less than 120 acres) of the WSA.

The WSA's special features (scenic quality and historic features) are inherently tied to the wilderness value of naturalness. Thus, the WSA's special features would be affected to the same degree as naturalness.

No other management actions are anticipated that would negatively affect the WSA's wilderness values in the foreseeable future.

Conclusion: ORV use would adversely affect the wilderness value of solitude and primitive recreation on less than 10% (less than 1,200 acres) of the Split Rock WSA. Assessment work and extraction of small amounts of jade on one claim would affect the wilderness value of naturalness on less than 1% (less than 120 acres) of the WSA. Neither are considered to be significant impacts on the WSA's wilderness values.

Impacts on the Development of Energy and Mineral Resources

The entire 12,789 acres of the Split Rock WSA would be open to oil and gas leasing. However, because of no potential for oil and gas in the WSA, no exploration or development is anticipated.

The entire WSA would remain open to locatable mineral entry. All potential locatable mineral resources would be available for exploitation. However, the only activity expected would be annual assessment work and extraction of small amounts of ore on the one existing jade claim over the long term. No other exploration or development activities would be expected.

Conclusion: The entire 12,789-acre Split Rock WSA would be open to mineral entry and leasing. There would be no significant impact on mineral or energy resources.

Impacts on Local Ranching Operations

Under the Proposed Action, recreational ORV use would be limited to the 1½ miles of existing two-track trail. Signs would be placed at strategic locations. specifying the restrictions. Overall visitation is expected to remain stable at around 1,750 visitor days annually for the next ten years including 250 visitor days annually of ORV use. There would be no displacement of vehicle-dependent recreation onto private land because overall use is not expected to change. Contacts between the three adjacent landowners and recreationists would continue at the estimated current level of 50 per year. No change is anticipated from present levels. These contacts would include personal requests for permission to cross or use private property, trespassers, gates left open. and so forth. The contacts would continue to be concentrated during the months of May through Octo-

Conclusion: No increased conflict or impact is expected. Consequently, there would be no impact on ranching operations.

Adverse Impacts Which Cannot Be Avoided

There are no projected management actions or surface-disturbing activities that will result in any significant unavoidable adverse impacts. The minimal mineral assessment work associated with the one mining claim in the WSA will result in only negligible adverse impacts that will be temporary in nature.

Relationship Between Short-term Use of the Environment and the Manitenance and Enhancement of Long-term Productivity

If this WSA is not designated wilderness, all present, short-term uses would continue. Off-road vehicle use, mining, and mineral leasing activities could result in the loss of wilderness values over the long term. However, increases in these activities are not expected.

If the area is designated wilderness, it would ensure the long term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by the area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to a validity examination or future Congressional actions.

Irreversibel and Irretrievable Commitment of Reosurces

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of the WSA, if not designated wilderness. Wilderness designation would not create an irretrievable or irreversible commitment of resources within the WSA. Designation would restrict or stop development activities and maintain the area's natural condition. If, in the future, Congress decided it would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

All Wilderness Alternative

Impacts on Wilderness Values

Under the All Wilderness Alternative, wilderness values on the entire 12,789 Split Rock WSA would be given the special legislative protection granted to designated wilderness. The area would be withdrawn from all forms of mineral entry and leasing. subject to valid existing rights at the time of designation. It is assumed that the existing jade claim within the WSA would contain a valid discovery, but because of current market conditions and known resource values in the WSA, the only activity expected. would be the annual assessment work and extraction of very small amounts of ore. In addition, no new road construction would occur. This would result in less than five acres of surface disturbance (small excavations and spoil piles of less than a cubic meter) over the long term. Impacts to the wilderness value of naturalness would be negligible because the disturbance would occur over the course of several years disturbing less than 1% of the WSA.

An estimated 250 visitor days annually of ORV use would be eliminated from the WSA. About 1% miles of two-track trail would be closed. Encounters between ORV users and other recreationists are infrequent at present levels of use because the ORV use occurs in the flats below the rocks while other recreation uses occur in the rocks themselves. However, the elimination of ORVs would benefit the wilderness value of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area. The projected 5% increase in non-motorized forms of recreation would not affect wilderness values because use is presently low and would be fairly evenly distributed throughout the entire 12.789 acres of the WSA.

The WSA's special features of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would be affected to the same degree as naturalness.

Conclusion: Wilderness values would be protected on the entire 12.789-acre Split Rock WSA.

Impacts on the Development of Energy and Mineral Resources

Under the All Wilderness Alternative, the entire WSA would be withdrawn from all forms of mineral entry and leasing. It is assumed that the existing jade

claim within the WSA would contain a valid discovery. Because of current market conditions and known resource values in the WSA, the only activity expected would be annual assessment work and extraction of very small amounts of ore(less than 100 pounds per year). Other opportunities to explore for and develop potential locatable minerals would be forgone. The WSA has no potential for oil and gas resources, so no development of these resources would be forgone.

Conclusion: There would be no significant impact on energy or mineral resources.

Impacts on Local Ranching Operations

An estimated 250 visitor days annually of recreational ORV use would be eliminated from the WSA. Future opportunities for ORV-related recreation would be forgone. Most, if not all, of the vehicledependent recreation use would be displaced onto adjacent private land. The private land contains similar ORV opportunities as occurs in the WSA and there is little substitutable public land in the immediate area. In addition, it is estimated that there would be a 5% increase in nonmotorized forms of recreation in the WSA (to 1.575 visitor days annually) due to wilderness designation and the resultant increase in promotion by tourism groups. The increase in use would not adversely affect the recreation experience in the WSA because the use would be fairly evenly distributed throughout the entire WSA. However, displacement of vehicledependent recreation onto adjacent private land and the expected increase in nonmotorized use would result in the adjacent landowners experiencing an increase in the number of public contacts occurring during the summer months.

There are three landowners adjacent to the Split Rock WSA. It is estimated that the landowners would receive an additional 15 contacts (for a total of 65) with the public during the months of May through October. This would be a 30% increase from the current level of 50 per year. Contacts or problems would occur in several forms, including persons making face-to-face or telephone contacts asking permission to cross private land, confrontations with trespassers, and gates left open.

Although the incremental increase in the number of contacts is small, it is significant to the land-owners in the following ways. Even a small increase in contacts is seen by the landowners as an intrusion into their ranching operation. Time spent dealing with inquiries, trespassers, open gates, or relocating livestock means time spent away from their ranching operation and additional costs such as repairing gates, and replacing signs. Unpleasant confronta-

tions between landowners and recreationists who are refused access would increase. Landowners would devote additional time and effort in trespass prevention, signing private land, patrols, closing gates, and retrieving livestock.

Cumulatively, a particular landowner would be subject to additional contacts associated with the other three WSAs in the Sweetwater Rocks complex. For example, it is estimated that one landowner would receive and additional 12 contacts on three of the WSAs in the Sweetwater Rocks each year. Given that the use season for the WSAs is compressed into less than half of the year, this would be a significant intrusion into that landowner's lifestyle.

Conclusion: The 30% increase (from 50 to 60) in contacts between the public and landowners would result in increased disruption of the local tandowner's ranching operation.

SAVAGE PEAK

Proposed Action—No Wilderness (No Action)

Impacts on Wilderness Values

Under the Proposed Action, none of the wilderness values on 7,041 acres would be given the special legislative protection afforded to designated wilderness. Sights and sounds from recreational ORV use would have an adverse effect on solitude and primitive recreation but the impact would be minimal with less than 10% of the WSA affected (less than 700 acres). Recreational ORV use levels are low (250 visitor days per year) and contacts between ORV users and other recreationists would be infrequent because the two uses occur in different part of the WSA.

There is low to no potential for oil and gas resources in the Savage Peak WSA, so wilderness values would not be affected by oil and gas exploration or development activities. There are no mining claims in the Savage Peak WSA. Given current market conditions, it is unlikely that any exploration or development for locatable minerals would occur in the foreseeable future. There would be no impact on the wilderness value of naturalness.

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would not be affected.

No other management actions are anticipated that would negatively affect the WSA's wilderness values in the foreseeable future.

Conclusion: ORV use would adversely affect the wilderness value of solitude and primitive recreation on less than 10% of the Savage Peak WSA (less than 700 acres). This is not considered to be a significant impact. No other management actions are anticipated that would negatively affect the WSA's wilderness values.

Impacts on the Development of Energy and Mineral Resources

The entire 7,041 acres of the Savage Peak WSA would be open to oil and gas leasing. However, because there is no potential for oil and gas in the WSA, no exploration or development is anticipated.

The entire WSA would be open to locatable mineral entry. All potential locatable mineral resources would be available for exploitation. However, there are no mining claims in the WSA and although the potential is there for discoveries of jade, uranium, and thorium, no exploration or development activities would be expected.

Conclusion: The entire 7,041-acre Savage Peak WSA would be open to mineral entry and leasing. There would be no significant impact on mineral resources.

Impacts on Local Ranching Operations

Under the Proposed Action, recreational ORV use would be limited to the one mile of existing two-track road. Signs would be placed at strategic locations specifying the restrictions. Overall visitation is expected to remain stable at around 1,250 visitor days annually for the next ten years. This includes 250 visitor days of ORV use annually. There would be no displacement of vehicle-dependent recreation onto private land because overall use is not expected to change. Contacts between the three adjacent landowners and recreationists would continue at the estimated current level of 50 per year again because no change is anticipated from present levels. These contacts would include personal requests for permission to cross or use private property, trespassers, and gates left open. The contacts would continue to be concentrated during the months of May through October.

Conclusion: No increased conflict or impact is expected. Consequently, there would be no impact on ranching operations.

Adverse Impacts Which Cannot Be Avoided

There are no projected management actions or surface-disturbing activities that will result in any significant unavoidable adverse impacts. The continued low levels of recreational ORV use will only locally result in negligible adverse impacts.

Relationship Between Short-term Use of the Environment and the Maintenance and Enhancement of Long-term Productivity

If this WSA is not designated wilderness, all present, short-term uses would continue. Off-road vehicle use, mining, and mineral leasing activities would result in the loss of wilderness values over the long term. However, increases in these activities are not expected.

If the area is designated wilderness, it would ensure the long-term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by the area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to a validity examination or future Congressional actions.

Irreversibel and Irretrievable Commitment of Resources

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of the WSA, if not designated wilderness. Wilderness designation would not create an irretrievable or irreversible commitment of resources within the WSA. Designation would restrict or stop development activities and maintain the area's natural condition. If, in the future, Congress decided it would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

All Wilderness Alternative

Impacts on Wilderness Values

Under the All Wilderness Alternative, wilderness values on the entire 7,041-acres Savage Peak WSA would be given the special legislative protection granted to designated wilderness. The area would be withdrawn from all forms of mineral entry and leasing, subject to valid existing rights at the time of designation. No surface disturbance is expected. As a result, the wilderness value of naturalness would be protected over the long term.

An estimated 250 visitor days annually of ORV use would be eliminated from the WSA. About one mile of two-track trail would be closed. Encounters between ORV users and other recreationists are infrequent at present levels of use because ORV use occurs in the flats below the rocks while other recreation uses occur in the rocks themselves. The elimination of ORVs would benefit the wilderness value of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area. The projected 5% increase in nonmotorized forms of recreation would not affect wilderness values because use is low and would be fairly evenly distributed throughout the entire 7,041 acres of the WSA.

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would be affected to the same degree as naturalness.

Conclusion: Wilderness values would be protected on the entire 7,041-acre Savage Peak WSA.

Impacts on the Development of Energy and Mineral Resources

Under the All Wilderness Alternative, the entire WSA would be withdrawn from all forms of mineral entry and leasing. Future opportunities to explore for and develop potential locatable minerals would be forgone. The WSA has no potential for oil and gas resources, so no development of these resources would be forgone.

Conclusion: There would be no significant impact to energy or mineral resources.

Impacts on Local Ranching Operations

An estimated 250 visitor days annually of recreational ORV use would be eliminated from the WSA. Future opportunities for ORV-related recreation

would be forgone. Most, if not all, of the vehicledependent recreation use would be displaced onto adjacent private land. The private land contains similar ORV opportunities as occurs in the WSA and there is little substitutable public land in the immediate area. In addition, it is estimated that there would be a 5% increase in nonmotorized forms of recreation in the WSA (to 1,050 visitor days annually) due to wilderness designation and the resultant increase in promotion by tourism groups. The increase in use would not adversely affect the recreation experience in the WSA because use would be fairly evenly distributed throughout the entire WSA. However, displacement of vehicle dependent recreation onto adjacent private land and the expected increase in nonmotorized use would result in the adjacent landowners experiencing an increase in the number of public contacts occurring during the summer months.

There are three landowners adjacent to the Savage Peak WSA. It is estimated that the landowners would receive an additional ten contacts (for a total of 50) with the public during the months of May through October. This would be a 25% increase from the current level of 40 per year. Contacts or problems would occur in several forms, including persons making face-to-face or telephone contacts asking permission to cross private land, confrontations with trespassers, and gates left open.

Although the incremental increase in the number of contacts is small, it is significant to the landowners in the following ways. Even a small increase in contacts is seen by the landowners as an intrusion into their ranching operation. Time spent dealing with inquiries, trespassers, open gates, or relocating livestock means time spent away from their ranching operation and additional costs such as repairing gates, and replacing signs. Unpleasant confrontations between landowners and recreationists who are refused access would increase. Landowners would devote additional time and effort in trespass prevention, including signing private land, patrols, closing gates, and retrieving livestock.

Cumulatively, a particular landowner would be subject to additional contacts associated with the other three WSAs in the Sweetwater Rocks complex. For example, it is estimated that one landowner would receive an additional 12 contacts on three of the WSAs in the Sweetwater Rocks each year. Given that the use season for the WSAs is compressed into less than half of the year, this would be a significant intrusion into that landowner's lifestyle.

Conclusion: The 25% increase (from 40 to 50) in contacts between the public and landowners would result in increased disruption of the local landowner's ranching operation.

MILLER SPRINGS

Proposed Action (No Wilderness)

Impacts on Wilderness Values

Under the Proposed Action, none of the wilderness values on 6.429 acres would be given the special legislative protection afforded to designated wilderness. Sights and sounds from recreational ORV use would have an adverse impact on solitude and primitive recreation but the impact would be minimal. with less than 10% of the WSA affected (less than 600 acres). Recreational ORV use levels are low (250 visitor days per year) and contacts between ORV users and other recreationists would be infrequent because the uses occur in different parts of the WSA. There is low to no potential for oil and gas resources in the Miller Springs WSA, so wilderness values would not be affected by oil and gas exploration or development activities. Given current market conditions, it is unlikely that any exploration or development for uranium, thorium, or zeolites would occur in the foreseeable future.

Regarding mineral development, surface disturbance from assessment work (hand-sampling) and extraction of small amounts of jade (up to 100 pounds per year) on the one claim located in the southeastern portion of the WSA would be limited to less than five acres over the long term. No roads would be needed. The wilderness value of naturalness would be affected on less than 1% of the WSA (Less than 60 acres).

The WSA's special features (historic features and opportunities for geologic study) are inherently tied to the wilderness value of naturalness. Thus, the WSA's special features would be affected to the same degree as naturalness.

No other management actions are anticipated that would negatively affect the WSA's wilderness values in the foreseeable future.

Conclusion: ORV use would adversely affect the wilderness value of solitude and primitive recreation on less than 10% of the Miller Springs WSA (less than 600 acres). Assessment work and extraction of small amounts of jade from one claim would affect the wilderness value of naturalness on less than 1% of the WSA (less than 60 acres). Neither are considered to be significant impacts on the WSA's wilderness values.

Impacts on the Development of Energy and Mineral Resources

The entire 6,429 acres of the Miller Springs WSA would be open to oil and gas leasing. However, because there is no potential for oil and gas in the WSA is low to nonexistent, no exploration or development is anticipated.

The entire WSA would remain open to locatable mineral entry. All potential locatable mineral resources would be available for exploitation. However, the only activity expected is annual assessment work and extraction of small amounts of jade on the one existing jade claim over the long term. No other exploration or development activities would be expected.

Conclusion: The entire 6,429-acre Miller Springs WSA would be open to mineral entry and leasing. There would be no significant impact on energy or mineral resources

Impacts on Local Ranching Operations

Under the Proposed Action, recreational ORV use would be limited to the two miles of existing twotrack trail. Signs would be placed at strategic locations specifying the restrictions. Overall visitation is expected to remain stable at around 500 visitor days annually for the next ten years. This includes 250 visitor days of ORV use annually. There would be no displacement of vehicle-dependent recreation onto private land because overall use is not expected to change. Contacts between the three adjacent landowners and recreationists would continue at the estimated current level of 40 per year. No change is anticipated from present levels. These contacts would include personal requests for permission to cross or use private property, trespassers, gates left open, and so forth. The contacts would continue to be concentrated during the months of May through October

Conclusion: No increased conflict or impact is expected. Consequently, there would be no impact on ranching operations.

Adverse Impacts Which Cannot Be Avoided

There are no projected management actions or surface-disturbing activities that will result in any

significant unavoidable adverse impacts. The minimal mineral assessment work associated with the one mining claim in the WSA will result in only negligible adverse impacts that will be temporary in nature.

Relationship Between Short-term Use of the Environment and the Maintenance and Enhancement of Long-term Productivity

If this WSA is not designated wilderness, all present, short-term uses would continue. Off-road vehicle use, mining, and mineral leasing activities would result in the loss of wilderness values over the long term. However, increases in these activities are not expected.

If the area is designated wilderness, it would ensure the long-term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by the area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to a validity examination or future Congressional actions.

Irreversible and Irretrievable Commitment of Reosurces

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of the WSA, if not designated wilderness. Wilderness designation would not create an irretrievable or irreversible commitment of resources within the WSA. Designation would restrict or stop development activities and maintain the area's natural condition. If, in the future, Congress decided it would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

All Wilderness Alternative

Impacts on Wilderness Values

Under the All Wilderness Alternative, wilderness values on the entire 6,429 Miller Springs WSA would be given the special legislative protection granted to designated wilderness. The area would be withdrawn from all forms of mineral entry and leasing, subject to valid existing rights at the time of designation.

nation. It is assumed that the existing jade claim within the WSA would contain a valid discovery, but because of current market conditions and known resource values in the WSA, the only activity expected would be the annual assessment work and extraction of very small amounts of ore. In addition, no new road construction would occur. This would result in less than five acres of surface disturbance (small excavations and spoil piles of less than a cubic meter) over the long term. Impacts to the wilderness value of naturalness would be negligible because the disturbance would occur over the course of several years, disturbing less than 1% of the WSA (less than 60 acres).

An estimated 250 visitor days annually of ORV use would be eliminated from the WSA. About two miles of two-track trails would be closed. Encounters between ORV users and other recreationists are infrequent at present levels of use because ORV use occurs in the flats below the rocks while other recreation uses occur in the rocks themselves. However, the elimination of ORVs would benefit the wilderness value of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area. The projected 5% increase in non-motorized forms of recreation would not affect wilderness values because use is low and would be fairly evenly distributed throughout the entire 6,429 acres of the WSA.

The WSA's special feature of scenic quality is inherently tied to the wilderness value of naturalness. Thus, the WSA's scenic quality would be affected to the same degree as naturalness.

Conclusion: Wilderness values would be protected on the entire 6,429-care Miller Springs WSA.

Impacts on the Development of Energy and Mineral Resources

Under the All Wilderness Alternative, the entire WSA would be withdrawn from all forms of mineral entry and leasing. It is assumed that the existing jade claim within the WSA would contain a valid discovery. However, because of current market conditions and known resource values in the WSA, the only activity expected would be annual assessment work and extraction of very small amounts of ore (less than 100 pounds per year). Other opportunities to explore for and develop potential locatable minerals would be forgone. The WSA has low to no potential for oil and gas resources, so no development of these resources would be forgone.

Conclusion: There would be no significant impact on energy or mineral resources.

Impacts on Local Ranching Operations

An estimated 250 visitor days annually of recreational ORV use would be eliminated from the WSA. Future opportunities for ORV-related recreation would be forgone. Most, if not all, of the vehicledependent recreation use would be displaced onto adjacent private lands. The private land contains similar ORV opportunities as occurs in the WSA and there is little substitutable public land in the immediate area. In addition, it is estimated that there would be a 5% increase in nonmotorized forms of recreation in the WSA (to 265 visitor days annually) due to wilderness designation and the resultant increase in promotion by tourism groups. The increase in use would not adversely affect the recreation experience in the WSA because it would be fairly evenly distributed throughout the entire WSA. However, displacement of vehicle-dependent recreation onto adjacent private lands and the expected increase in nonmotorized use would result in the adjacent landowners experiencing an increase in the number of public contacts occurring during the summer months.

There are three landowners adjacent to the Miller Springs WSA. It is estimated that the landowners would receive an additional five contacts (for a total of 45) with the public during the months of May through October. This would be a 13% increase from the current level of 40 per year. Contacts or problems would occur in several forms, including persons making face-to-face or telephone contacts asking permission to cross private land, confrontations with trespassers, and gates left open.

Although the incremental increase in the number of contacts is small, it is significant to the landowners in the following ways. Even a small increase in contacts is seen by the landowners as an intrusion into their ranching operation. Time spent dealing with inquiries, trespassers, open gates, or relocating livestock means time spent away from their ranching operation and additional costs such as repairing gates, and replacing signs. Unpleasant confrontations between landowners and recreationists who are refused access would increase. Landowners would devote additional time and effort in trespass prevention, including signing private land, patrols, closing gates, and retrieving livestock.

Cumulatively, a particular landowner would be subject to additional contacts associated with the other three WSAs in the Sweetwater Rocks complex. For example, it is estimated that one landowner would receive and additional 12 contacts on three of the WSAs in the Sweetwater Rocks each year. Given that the use season for the WSAs is compressed into less than half of the year, this would be a significant intrusion into that landowner's lifestyle.

Conclusion: The 13% increase (from 40 to 45) in contacts between the public and landowners would result in increased disruption of the local landowner's ranching operation.

COPPER MOUNTAIN

Proposed Action (No Wilderness)

Impacts on Wilderness Values

Under the Proposed Action, none of the wilderness values on the entire 6,858-acre Copper Mountain WSA would be given the special legislative protection afforded to designated wilderness. In the short term, there would be little effect on wilderness values because little development activity is expected, whether or not the area is designated wilderness. In the long term, however, wilderness values would be lost as a result of anticipated oil and gas leasing and exploration in the southern half of the WSA.

Because of the WSA's high potential for hydrocarbon resources, it is estimated that four producing oil and gas wells would be drilled just inside the WSA's southern boundary. Two miles of roads would be constructed within the WSA to access the well locations, and an estimated 40 acres of surface disturbance would result from roads, drill pads, and equipment parking areas at the well sites. The wilderness value of naturalness would be permanently lost on the 40 acres of surface disturbance, and the perception of naturalness would be adversely affected on an additional 800 acres, the estimated area in which at least some portion of the man-made development could be seen by the casual visitor. Impacts to naturainess would be caused by the noise and presence of the machinery: these would be obvious intrusions into an otherwise natural setting.

Opportunities for solitude would also be lost because of the oil and gas activities. Sights and sounds of the machinery, construction of the pads and the wells, and long term maintenance activities would all decrease one's chances of finding solitude to the same degree as naturalness. Thus, outstanding opportunities for solitude would be lost on 840 acres in the southern portion of the WSA because of oil and gas development.

Assessment work on the existing uranium claims would not adversely affect wilderness values. Surface disturbance would be limited to less than 5 acres over the long term.

After the roads are constructed, sights and sounds from recreational ORV use would have an adverse impact on solitude and primitive recreation. However, the impact would be minimal because recreational ORV use levels are not expected to increase beyond 50 visitor days annually for the foreseeable tuture. Contacts between recreational ORV users and other recreationists would be infrequent.

The WSA's special features (scenic quality and opportunities for ecologic and geologic study) would remain unaffected under the Proposed Action. No other management actions are anticipated that would negatively affect the WSA's wilderness values in the foreseeable future.

Conclusion: The Copper Mountain WSA's wilderness values of naturalness, solitude, and primitive recreation would be lost over the long term on approximately 840 acres, or about 12% of the WSA. Wilderness values on the remaining portion of the WSA would be subject to loss in the long term, but no adverse activities are anticipated in the foreseeable future.

Impacts on the Development of Energy and Mineral Resources

Under the Proposed Action, the entire WSA would be open for mineral entry and leasing. The likelihood for occurrences of oil and gas is moderate to high throughout the WSA.

All of the WSA would be available for oil and gas leasing, exploration, and development, except for areas in excess of 25% slope or within 500 feet of surface water and riparian areas. In addition, surface disturbing activities could not occur during times when wintering wildlife are on their crucial winter ranges. It is anticipated that drilling activities would occur on the southern half of the WSA. It is expected that a field of four producing wells would be developed along the southern portion of the WSA. The surface protection restrictions would not unduly restrain the development of oil and gas resources within the WSA.

All 6,858 acres of the WSA would remain open to locatable mineral entry. The only activity that is expected would be annual assessment work on existing claims on the western boundary of the WSA.

Conclusion: The entire 6,858-acre Copper Mountain WSA would be open to all forms of mineral entry and leasing. There would be no impact to mineral resources under the Proposed Action.

Impacts on Recreational ORV Use

Recreational ORV use would be limited to the two miles of new roads associated with the oil and gas field. This would be a substantial increase in accessibility within the WSA. However, it is anticipated that ORV use would remain low because of a lack of recreation attractions in the WSA, with use not exceeding 50 visitor days annually for the foreseeable future.

Conclusion: Under the Proposed Action, there would be an increase in vehicle accessibility within the Copper Mountain WSA. There would be no significant impact to recreation ORV use.

Adverse Impacts Which Cannot Be Avoided

Adverse impacts which cannot be avoided under the Proposed Action would result from the projected 4-well oil and gas field that is projected to occur in this WSA. Impacts would be the loss of wilderness values as described earlier from the development activities. The expected low level of recreational ORV use will result in only localized negligible adverse impacts.

Relationship Between Short-term Use of the Environment and the Maintenance and Enhancement of Long-term Productivity

If this WSA is not designated wilderness, all present, short-term uses would continue. Off-road vehicle use, mining, and mineral leasing activities would result in the loss of wilderness values over the long term.

If the area is designated wilderness, it would ensure the long-term productivity of ecosystems and would maintain or enhance present wilderness values. Motorized vehicles could no longer be used except where prescribed by the area's wilderness management plan. Mineral resources would not be available for development after the date of designation, subject to a validity examination or future Congressional actions.

Irreversibel and Irretrievable Commitment of Resources

Activities such as mining and mineral leasing could create an irreversible commitment of the wilderness resource in part or all of the WSA, if not designated wilderness. Wilderness designation would not create an irretrievable or irreversible commitment of resources within the WSA. Designation would restrict or stop development activities and maintain the area's natural condition. If, in the future, Congress decided it would be in the national interest to develop certain resources within a wilderness, they can modify the law to allow it.

All Wilderness Alternative

Impacts on Wilderness Values

Under the All Wilderness Alternative, wilderness values on the entire 6,858 acres of the Copper Mountain WSA would receive the special legislative protection provided by wilderness designation. The area would be withdrawn from all forms of mineral entry and leasing. No oil and gas development would occur. It is assumed that the existing claims within the WSA would contain a valid discovery, but the only activity expected would be the annual assessment work, resulting in less than five acres of surface disturbance over the long term. The wilderness value of naturalness would not be affected because the disturbance would occur over the course of several years and would affect less than 1% of the WSA (less than 650 acres).

ORVs would be eliminated from the entire WSA. Although there are currently no roads in the WSA, the All Wilderness Alternative would preclude construction of roads and there would be no increase in vehicle accessibility in the WSA. Thus, the All Wilderness Alternative would benefit the wilderness

value of solitude and primitive recreation because visitors would not encounter or hear ORV users in the area. There would be no impact on the WSA's special features under this alternative.

Conclusion: Wilderness values would be protected on the entire 6,858-acre Copper Mountain WSA.

Impacts on the Development of Energy and Mineral Resources

Under the All Wilderness Alternative, the entire WSA would be withdrawn from all forms of mineral entry and leasing. There would be no development of oil and gas resources in the WSA. It is assumed that the existing claims within the WSA would contain valid discoveries. However, because of current market conditions and known resource values, it is expected that the only activity on these claims would be the annual assessment work.

The WSA has moderate to high potential for oil and gas. Future opportunities to explore for and develop these resources would be forgone. The development of an oil and gas field of four wells would be forgone.

Conclusion: The entire WSA would be closed to all forms of mineral entry and leasing. The small oil field development that is projected would not occur. This is considered to be a significant impact on the development of oil and gas.

Impacts on Recreational ORV Use

ORVs would be eliminated from the entire Copper Mountain WSA. The impact would be minimal because there is currently no ORV use in the WSA.

Conclusion: The impact would be minimal because no ORV use is presently occurring in the WSA.

CHAPTER 5

CONSULTATION AND COORDINATION

INTRODUCTION

This document has been prepared by specialists from the BLM's Lander Resource Area office, with assistance from the Rawlins District Office and the Wyoming State Office. Disciplines and skills used to develop this EIS were livestock grazing, soils, recreation, geology, cultural resources, public affairs, wildlife, editing, and word processing. Research began in 1978 with the wilderness review required by FLPMA; the writing of this EIS began in September 1984. The process included inventories of resources, public participation, and coordination with organizations, individuals, and other agencies. Care has been exercised to ensure that the public was consulted and informed throughout the wilderness review process.

An active public involvement process aided in the development of this EIS. Public opinion was elicited through public meetings in Lander and Dubois; mailings to an extensive list of groups and individuals; personal interviews; and a notice in the Federal Register.

CONSISTENCY

Coordination with other agencies and consistency with other plans was accomplished through continual communications and cooperative efforts between the BLM and involved federal, state, and local agencies and organizations. The Wyoming Governor's Clearinghouse was supplied with numerous copies of this draft document for review to ensure consistency with the state's ongoing plans. County land use plans have been reviewed by the EIS team to ensure consistency.

The BLM also has coordinated with the Bureau of Indian Affairs from the Wind River Reservation, the Bureau of Reclamation for the adjoining Boysen Reservoir project, and the U.S. Forest Service for the adjoining Shoshone National Forest.

Local groups have been consulted to ensure that all parties are aware of the plans and objectives. A copy of the newsletter was distributed to all persons on the Lander EIS mailing list. This list is available at the Lander Resource Area Office.

Copies of this document are available for review in the BLM offices at Lander, Rawlins, Worland,

Casper, and Rock Springs, and in the county libraries in Fremont, Natrona, Sweetwater, and Carbon Counties.

LIST OF PREPARERS

Leadership

Rick Colvin, District Outdoor Recreation Planner

Qualifications: District Outdoor Recreation Planner, Bureau of Land Management, 9 years. M.A., Interdisciplinary Studies, Oregon State University; B.S., Resource Recreation Management, Oregon State University.

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Responsibility: Minerals.

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Gary Long, Outdoor Recreation Planner

Qualifications: Outdoor Recreation Planner and Wilderness Coordinator, 5 years, and Land Use Planner (economist), 4 years, Bureau of Land Management; Research Assistant, University of Wyoming, 1 year. B.A., Geography, University of Wyoming.

Responsibility: Recreation, Visual Resources, Wilderness.

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Responsibility: Wildlife.

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Responsibility: Recreation, Visual Resources, Wilderness.

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Qualifications: Fisheries Biologist, Bureau of Land Management, 5 years; Fisheries Biologist, U.S. Fish and Wildlife Service, 1 year. M.S., Fishery Resources, University of Idaho; B.S., Wildlife Biology, Washington State University.

Responsibility: Fisheries.

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Qualifications: Wildlife Biologist, Bureau of Land Management, 18 years. M.S., B.S., Wildlife and Range Ecology, University of Wyoming.

Responsibility: Wildlife.

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Technical Review (Continued)

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Jerry Carter, Printing Specialist, Wyoming State Office

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CONSULTATION

Agencies and Organizations Consulted

The planning team consulted with, mailed notices or drafts to, and/or received comments from the agencies and organizations listed below during development of the plan. An asterisk (*) indicates that the agency or organization commented on the draft wilderness EIS. Two asterisks (**) indicate agencies that commented on the draft Lander RMP but had no specific comments regarding the wilderness EIS. These letters are included herein to illustrate that a response was received.

Federal Agencies

U.S. Department of the Interior

Bureau of Reclamation
Bureau of Indian Affairs
Bureau of Land Management (other offices)

*National Park Service
Office of Surface Mining

**Fish and Wildlife Service
U.S. Geological Survey
U.S. Bureau of Mines

U.S. Department of Agriculture

Forest Service Soil Conservation Service

**Environmental Protection Agency

Tennessee Valley Authority

U.S. Department of Energy

U.S. Department of Defense

"Department of the Air Force

U.S. Department of Housing and Urban Development

U.S. Department of Commerce

U.S. Department of Transportation

Congressional Offices

Office of Congressman Cheney Office of Senator Simpson Office of Senator Wallop

State Agencies

*Wyoming Office of the Governor

State Planning Coordinator's Office

'Game and Fish Department
Recreation Commission
Highway Department
Public Lands Commission
Public Lands and Farm Loan District
Public Service Commission
University of Wyoming (various departments)
State Historic Preservation Officer
Central Wyoming College

'Archives Museums and Historical Department
Department of Environmental Quality
'Geological Survey
'State Engineer's Office
Oil and Gas Conservation Commission

State Legislators

Senators and Representatives of Fremont, Carbon, Sweetwater, Hot Springs, Sweetwater, Laramie, and Albany Counties

Tribal Business Councils

Arapahoe Business Council Shoshone Business Council

Local Governments

Natrona County Commissioners
Carbon County Commissioners
Sweetwater County Commissioners
Hot Springs County Commissioners
City of Lander
'City of Riverton
'Town of Shoshone
Town of Shoshone
Town of Atlantic City
Town of South Pass
Fremont County Planning Commission
Natrona County Weed District
Fremont County Weed District
Fremont County Extension Agent
Fremont County Solid Waste Disposal District

Board of Fremont County Commissioners

Business and Industry

Monsanto Company Exxon Company, USA Numex Colorado Interstate Gas Exploration, Inc. Hugh Jones Agency American Nuclear Corp.

Organizations

National Outdoor Leadership School The Wilderness Society Continental Divide Trail Society Sierra Club Friends of the Earth, Inc. Wyoming Wilderness Association Fremont County Audubon Society

PUBLIC COMMENTS AND RESPONSES ON THE DRAFT EIS

Introduction

The issues addressed in this EIS have generated a large number of public comments. There were approximately 600 letters that solely addressed the wilderness recommendations. The writers of most of these letters either were in favor of wilderness for all six WSAs or were opposed to any wilderness designation. The content of these letters is summarized below because there were too many to reproduce in this document.

Comments in favor of wilderness designation generally voiced concern that these valuable lands and resources would not get deserved protection without wilderness designation. They expressed the opinion that there is already too much development in Wyoming, such as a proliferation of roads, cleared forests, scenic degradation through mining and mineral leasing, and loss of wildlife and habitat. These writers said they thought that the Proposed Action for wilderness designation of approximately two-thirds of the Sweetwater Canyon is not sufficient. They included estimates that the total study area acreage makes up less than 1 percent of the land in the resource area.

These writers said all the WSAs are deserving of wilderness status as the last remaining vestiges of the environment that contain special resource values. They also said the values that qualify the areas for wilderness study should be protected from development so that something unique can be preserved for the benefit of this generation as well as future generations.

Most of these letters also expressed support for wilderness designation of the Whiskey Mountain and Dubois Badlands WSAs. Those two areas are not part of this EIS. Study and analysis of those areas, comprising 487 and 4,520 acres, respectively, will be carried out in 1989.

The comments against wilderness designation generally expressed the opinion that Wyoming already has too much wilderness in the national forests and national parks. The commenters said they are concerned that federal lands are being "locked up" and that multiple use will be lost by more wilderness designation. These writers said wilderness is detrimental to the state and local economies because it reduces development in industries such as the timber and mineral-related businesses and adversely affects such "spin-off" values as jobs and tax base. They also expressed the feeling that wilderness is restricted to young and physically fit persons and to those economically able to enjoy the benefit. Some of these correspondents said wilderness should not be set aside for such a small segment of the public. Further concerns were expressed that wilderness would draw more people to a particular area. and increase the social problems involved such as trespass on private lands, litter, and vandalism.

A recommendation that an area is nonsuitable for wilderness does not mean the area will be stripped of all protection against surface-disturbing developments. Any study areas released by Congress from the interim management guidelines would be managed under the provisions of the Lander RMP. The study areas lie within the Gas Hills and Beaver Creek resource management units, so they would be managed under the same protective stipulations as prescribed for those two units. Thus, resource values would be protected by such measures as "no surface occupancy" and seasonal restrictions for oil and gas activities where appropriate, withdrawals from locatable mineral activities for some specific areas, mining plan of operation requirements on other specific areas that are open to mining, and avoidance areas for major utility systems.

The public lands around the WSAs are not highly developed. Livestock grazing and wildlife habitat are the primary uses and there is little visual or physical impact involved.

On the other hand, the partial wilderness designation, the Proposed Action for Sweetwater Canyon, does not entail serious tradeoffs between wilderness and nonwilderness uses. For example, there would be minimal impacts on the present access in Sweetwater Canyon, and the economic impacts would be negligible.

FLPMA requires that the Secretary of the Interior complete his review of the public lands for wilderness potential and report his findings to the President within 15 years from the time the act was passed (October 21, 1991). The Secretary's reports will include the BLM's final suitability report, the final EIS (including analysis of public comments), the public hearing records, and the mineral evaluations conducted by the Geological Survey and the Bureau of Mines on any area recommended as suitable for wilderness.

The final step of the reporting process is for the President to make his recommendations to Congress. Only Congress can designate an area as part of the National Wilderness Preservation System.

We appreciate the efforts of so many people in taking time to provide comments. All the letters will be retained on file in the Lander BLM office and will be available for review throughout the remainder of the study process.

Persons Favoring or Opposing Designation

Commenters who wrote to express opposition to or preference for wilderness designation are listed below.

Opposed to Wilderness Designation

Robert G. & Jon D. Hill

Robert R. Dahlstedt Jim Moore Ray Shanor Clyde A. Ray Elizabeth H. Moore Dwight Sempert Mike Ibach Charles S. Tubman Dennis Davison L. R. Esp Sharon Chumley Gary Stover Peggy Bartlett Lanny Applegate Kenneth L. Stroh Mark A. Hickerson W. A. & Mary Svoboda David Englert Lee W. McRae Mike Yardas Helen & H. Thomas Weisz Donald R. Johnston Nancy Gimple Sherrie Cox Joseph W. Scott Wayne D. Gotfredson Mark Miller Raymond P. Virdin Shane K. Carev Robin Griffin Mark McDonald Helen Dunning Jerome T. Bergstrom Frank Gunsaullus P Tutton Ina Baker Sandy Smail Norman Leicester Vickie Garcia Janice Bergstrom Daniel C. Wyrick George L. Patik William L. Bregar Wilbert & Nancy Weitzel Kay Feutz Robert A. Stanker Parker Land & Cattle Co.

Opposed to Wilderness Designation (Continued)

Myrtle Shanor Gary Martin Rev. Gilbert B. Moore John Holdaway Patricia Moore Mike Black John & Gladys Weber Tom G. Massey, Sr. E. O. Sowerwine Dallas G. Bissell Monroe Harvey Tom Outland Barbara M. Stroh Don McOmie Vannis D. Parkhurst Rocky Yardas Sharon & Bob Campbell Charles Yardas, Jr. Cal Hancock Make Krassin Carol J. Moore Fred Cox Paul C. DePriest Marge Palmer Mike Nemeth Bill Hallam Kenneth J. Carey Carl Lockard Daniel M. Loque Clint Dunning Don Gunsaullus Vera Gunsaullus Scott Smail John L. Larsen Dave Smail, Jr. Gary M. Carrol Ronald G. Glasscock Mark Miller Brian Martinsen Don Metzger Duane R. Kaiser Dan Shatto Kathy Majdic Patricia E. Carr John D. Story Barbara A. Spever Joseph C. Palladino E. Ralph McCall Joseph L. Malek James D. Soumas, Mayor of Riverton Randy Lehman Larry Christensen Dorothy Davison Trinidad Herrera Jim Chumley Diana Currah Joyce Pickett Ken Rhoads Maryann Blackerby Carrie Hilpp Max T. Evans Brian Englert Shawn D. McRae Roland Gimple Curtis Syme Michael Wright

Tom L. Gotfredson

Michael D. Deep

Andy Palmer

Bill Locke

David Heyborne DeWayne Appleby Kent C. Johnson Wayne Griffin Michelle Gunsaullus Kody Hilpp L. M. Chipley Robert C. Peterson Tom Freed Lander Area Chamber Commerce Paul Davidson Alan L. McOmie Tom Heil Christine Rushing Gerald Applehans Norman L. Tutton Robert Cecrle Cindy Hale Terry K. Thompson Frank Madewell Charlotte Wentworth G. Mike McDonald Jack Weger Dave Tafova Earl W. Smith Kathy Lacy Jack Armstrong Moine C. Kisor Maryann Rathbone Frank S. Reed .tim Sable Elaine Hudspeth Tracy Davison Mrs. George Hornecker Janet Picherd Robert Milburn Clydene B. Allen Steve Brown Nancy Corbett Bud Carpenter Tammi Tutton Gladys Felix Darin Raymond Terri Edwards Keith Bieber Bill & Cyd Freese Elton D. Martin Colleen A. Martin Lewis B. Diehl James Siwik Donald C. Clausen Tom Lucas Mike McRann Jeannie Larsen Karla J. Cooper Bille Dutcher Hugh McRae Mervin Thompson Leslie Wilson Dale Jacob Aaron Shatto Nancy Van Fleet Lee Parrill John E. Murphy Deborah L. Derbish Gerald Moats Fred Steward Carol L. Boyd Mr. & Mrs. Mark Keiser Leon Atwood Don Jacobs Larry Sutt Melba R. Gibson Vicki Metzger

Chad Sable Lyn Sinclair Cortni Sable Duane Clubb Rudy Herbst Henry J. Hudspeth Donald Davison George Hornecker Mary F. Alexander Eileen Milburn Ruby C. Herman Martha McRae Angela V. Davey Alfred & Virgina Lindell Jim Waters Norman Cronk Don Metzger Shannon Dickinson Donna Applegate Bill Hirasawa Laurel Christensen Ken Jones Wendell V. Shields Sandy Siwik W. L. Taylor Mike Larsen Richard Cooper Karley Watt Darel L. Wentworth Jeff Palmeno Lynn McRann Ron Given Dorthy Hill Thomas R. Jeffres Becky Downs James L. Hubble Donald F Reed Mavis Hubble Mariorie Graham Charlene Seely Joan Saltz Millie Rhoads Don Kramer Ethel Tutton Jarold W. LaDoucer Judy K. Sutt James W. Gibson Diane Atwood Betty Sable Bud Sinclair Priscilla Herbst Mark Newton Ken Rathbone Jerry Alexander Alice O. Freese Wendy Minemyer Sidney Freese Tahna Balzly Shawn McRae Glen E. Herman Cvd Freese Michael S. Tutton Betty Weger Debby Metzger Wilson J. Felix Bill Heninger Denise R. Nelson Chris Peterson Don Calhoun Molly Browall Viola Wickstrom C. Jack Minter Richard Davey Thomas J. Cooper

Opposed to Wilderness Designation (Continued)

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Romona Shull

Alice B. Morrison Laurie Redland Jerriet McIntosh John Gilmore Tom & Mariorie Graham Damon Wilson Tom Redland Justin Jamerman Wayne Fox Billy McLaughlin Chuck Mott Betty Lou Gustin Scott Ward Evelyn C. Newell Flizabeth A. Metcalf Martin Mazurie William A. Coats Mark L. Morris Donna Wintermote William C. Burris

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Lois Wilson Milda Hester Anona M. Heimbigner Daphne O'Regan Jeff Thieret Hortense McIver Ron Guenther (Sierra Club Redwood Grace B. & Daniel L. Morris Jeanette Alosi Rex & Betty Mason Joesphine Briggs Cathering Kuhnle William & Genevieve Sattler Ron P. Good Robert T. Johnson John F. Wurzel Sheri Behrens Gerald L. Boomer Dara Newman-Samuels Edgar E. Hancock Scott Schulke Edith Olson Kenneth S. Warren Bruce Edwards Linda & Bill Alexander B. Newell John Canfield, M.D. S. Henry Hall David H. Hepler Ralph Delfino Dean Diers Helen Scull Maria A. Telesca George Catalano Sidney M. Hirsh Charles H. Ellis, III William J. Sander, D.C. Celia Lindlom William J. Laden Philip M. Harmon Ned W. Stone Frank Norris Jane Denton Neltie Gene Anne Parker Kenneth J. Macklin Elizabeth Howell Jeff Vaughan Alex Bennett Randy & Dierdre Rand Carl D. Mitchell Steven W. Patwell, M.D. Marian Gruenfelder Ken Bunch Alex L. Pugh Gertrude Platt Mrs. Thomas N. Bowdle Ola Harrison Neil McMillan Thomas J. Kluk Laurie A. Whitlock Mary B. Donchez Carl Rouch Harold A. Keelen, Jr. Joaquim Panozzo Jennifer Lawson Joan J. McCrory Allen L. Hammer Richard G. Cook James and Sheri Beck R. Craig Stotts Sterling Vinson

Sue Lowry

Thomas H. Slone

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Dr. Mike & Rae Newman

Eleanor P. & Dennis J. Fleming Sherill Lori Bob Hoffman Walter & Dorothy Pelech Angus Brown Timothy W. Pemberton Jim Allard Thomas G. Eick Betty Follis Joseph D. O'Neill Gregory J. Hickey Donald Purinton Betty L. Starratt Kevin Fernlund Celia Scott-Von der Muhll Paul J. Conn Hazel Koehler Caren Zimmern Joan Tockstein Gerda Mansell Dennis Hining Allan Sweger Mark Derichsweiler Tom & Virginia Angenent Robert O. & Ruth W. Zeller Rudolph Sucharda R. E. Peterson, II James V. Lewis Eric A. Greschner Neil O. & Jennifer S. Miller Christopher S. Cockey Mary Kleinert Thomas Gregory Katherine A. Gagne Paul C. & Pamela R. Bosch Alison Gieschner Alan Car.ton Caroline Yorke Brian Suderman Timothy Rockhold Kurt O. Otley Leonard Burkhardt Dorene D. Johnston Tina Gregory Helen A. Newhouse John M. Chaplick Thomas W. Giblin, Jr. Jim Wilson Mark S. Gailey Erika Schnurmann Olga M. Rosche Max Zischkale, Jr. Gwendoly Boudreaux Tony Chambers Virginia Bucknam Rosemary Michalec Lawrence A. Papp Barbara R. Hume John E. Earl David Clarendon lola Jokoboski Ted Rosa Sara Traum Joyce Holmes Ken Driese Steve Kuchera Dorothy J. Boulton D. Mark Parr Robert H. Kravich Connie Clauson-Pearce Janet Carruthers Lashly Connie Wilbert Ernest Wilson Maureen Lindh Carter

In Favor of Wilderness Designation (Continued)

Elisabett J. Lamback Ken Berg Norman F. Richardson Rosa McCann John Sargent Frank Traficante Michael & Constance Schmotzer Steve Champoux Susan C. MacGillis Pete Weiba Jean M. B. & James E. Genasci Dan Ritter M. Skov Holly Jensen Brad Young

Comments and Responses

Letters in the following section are arranged in the order received, first from agencies and organizations followed by individuals. The BLM's response immediately follows each letter. Comments within each letter are numbered, and the responses are numbered correspondingly. Some of these comments were used in making changes from the draft EIS when this preliminary final EIS was prepared.

All comments are printed verbatim. Handwritten comments have been typed verbatim for better readability and have been noted as such.

In addition to letters received from agencies and organizations, letters from the following 21 individuals were received.

Robert F. Bucknam Alice L. Gustin Mary Scharda Sharon E. Dooley Norman & Gaynell Park Joe Brandl Bruce Hamilton Dexter Perkins Melvin E. Gustin Bruce J. Noble, Jr. Rob Kindle Meredith Taylor Gary Keimig George D. Langstaff W.H.B. Graves Martie Crone Donald A. Smith Jim Minick Mark Hughes Tory Taylor Lynn Kinter



Response to Letter 1

Thank you for your comments.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AEGION VIII

ONE DENVER PLACE — 999 18TH STREET — SUITE 1300

DENVER, COLORADO 60202-2413

8PM-EA

FED # 0 1986

Jack Kelly, Area Manager Bureau of Land Management Lander Resource Area Post Office Box 589 Lander, Myoming 82520

Re: Lander Braft Resource Management Plan/Environmental Impact Statement (RMP/EIS), and Grazing and Wilderness Supplements 2

Bear Mr. Kelly:

In accordance with our responsibilities under the National Environmental Policy Act (MFA) and Section 309 of the Clean Air Act, the Region VIII Office of the Environmental Protection Agency (EPA) has reviewed the referenced documents. Mr. Gene Kollman of the Navilns District Office has provided very helpful sastitutene during our review.

These documents contain several highly commendable components that contribute to the objective of a "comprehensive framework for managing and allocating public land and resource uses in the resource area" as discussed on RMP/EIS page 1. Examples of such corponents include:

- o recognition of areas of deteriorated resource conditions,
- recognition of important fisheries and watershed values throughout the documents,
- o mapping of important fisheries and streams,
- o identification of priority areas for riparian-wetland area and aquatic habitat management/improvement, and
- o use of the Grazing Supplement for setting an assertive approach to addressing areas of deteriorated rangeland resource conditions.

Our enclosed comments are intended to constructively contribute to this "comprehensive framework" by covering a range of concerns and recommendations regarding water quality, regarding and wetland areas, aquatic life, and watershed and rangeland resources.

Many of our detailed comments relate to water quality objectives shared by both BLM and EPA. We feel that existing impairments and threats in water quality and designated beneficial uses should be described more thoroughly. Water quality-related values are to be considerations in future

activity planning; however, a better description of the status of these values in the BOB would help provide a better hase for such planning. Based on the above information, we would like to see the settr quality objectives (both for moments and marrative criteria, including antidegradation, baneficial wases) More directly discretibed by management area.

.2

The preferred alternative appears to be designed to provide BLM with maximum flexibility in managing leases in areas of high potential for cil and gas diverlegment. This approach can provide an incentive to leases to be actively involved in developing project-specific requirements for fine actively involved in developing project-specific requirements for singular to the property of the property

The State of Ignoring will be addressing antidogradation requirements for Appropriate Access aspects destriped that final pair. We encourage the AIN to be ware of this process and the applicability part of the applicability and apply to Lander Resource Area Streams. The State of Myoaring contact person is Larry Robinson in Cheyenne (777-7075), and the EPA contact person is BIII WeerTheir (FTS 56-1566 on 30-223-1866).

Base on our concepts and the criteria establishes by EAA to rate adequated first files, where rated these forest file documents of control of the file documents of the file of the fi

Sincerel

Dale Vodehnal, Chief Environmental Assessment Branch

Tale Vodehnal

Enclosure

cc: Richard Bastin, Rawlins 8LM District Manager Millary Oden, Wyoming 8LM State Director Randy Wood, Director, Wyoming Department of Environmental Quality William Dickerson, A-104[DFA, H.Q.]

Response to Letter 2

1. Thank you for your comments.

EPA DETAILED COMMENTS ON BUM DRAFT LANDER RESOURCE MANAGEMENT PLAN/ENVIRONMENTAL THRACT STATEMENT (RRF/FTS).

Mater Quality, Matershed, Aquatic life

The MMP/EIS and supplements recognize water quality and fisheries throughout. Mapping and listing the affected fisheries (pages 81-52) is preticalarly commondable in statublishing a framework for future activity properties of the statublishing affected fisheries (pages 81-52) is propertied. The properties of the statublishing affected fisheries (pages 18-18) and the statublishing affected fisheries (pages 18-18) and the statublishing affected fisheries (pages 18-18) and the statublishing and the statu

The RMP/IIs should accress the consistency of the issue resolution and terminations with IPA's current enter quality standards regulation used to the interest of the interest

The BOPGIS should document BIK coordination with the State in addressing the management of any priority water bodies for the LBA that may have been identified in the most recent Section MSSID laster quality, essential control of the most recent Section MSSID laster quality, essential control of the most recent Section MSSID laster quality, essential control of the most recent Section MSSID laster quality section of the most recent section of the most recent section of the most sect

under the preferred alternative, profestion of stream, riperian area, . . . could be significantly reduced on about 483,000 ceres of high oil and gas potential legac 48). The RMM needs to address the protection of water quality standered as a matter of policy for all alternatives couring the occupancy and seasonal restrictions be prescribed to provide the necessary water quality protection? I and dolling the observed rectains appears to be

contrary to BLM Manual 6740 which states BLM policy to: "A. Avoid the long- and short-term adverse impacts associated with destruction, loss, or degradation of welland-riparian meas", and "C, Preserve and enhance the natural and beneficial values of welland-riparian areas. ..." (Part, 06).

. .

The preferred siternative [page 4] and elsewherel would give considerable discretion to BUM to waive lessing requirements for resource protection. The waivers when waiver with make the protection of the protect

Another mineral development concern that needs to be thoroughly "fleshed out" in the proposed MMP/Inst [15] is the legal resource degradation allowable more than the proposed MMP/Inst [15] is the legal resource degradation allowable more than the more th

The use of materished planning in the LRA for comulative impact analysis and as mechanism to concrinate situ-specific project priorities and expectives for multiple use and/or multiple use and to planting the situation of the concrete partnership settle-should be project activity plans? What are the waterished planning/treatment priority areas? Regarding the discussion of the Soil Concrevation Service [SSS] on Gearing Supplement page 47, we believe that the discussion should be expanded to the concrete planting the discussion of the Soil Concrevation Service [SSS] on the soil of the Soil Concrevation Service [SSS] on the soil of the Soil Concrevation Service [SSS] on the soil of the Soil Concrevation Service [SSS] on the soil of the Soil Concrete Soil on the Soil Concrete Soil Concrete Soil on the Soil Concrete Soil on the Soil Concrete S

We commend BLM for proposing a strong approach to improving deteriorated ranguland resource conditions, at least for Category I allowants, in the area conered by the foraing Supplement (appex 31 brough 44 and elametre). We would like to see the Supplement eafind in more detail the implementation strategy, particularly bangeting, meedid to Auch the Improvement happen.

im do not feel that ground water resources were sufficiently addressed; homever, general management practices are discussed which relate to ground water protection. The draft BMP/EIS mentions that ground water resources, namely water wells and springs, may be affected by grophysical issismic!

× exploration. On page 60, the plan states that "shot-holes (from geophysical exploration) are plugged according to Myoming Oll and has Conservation rules These plugging practices should greatly enhance ground water

Under [PA's rules for the Underground Injection Control Program
[40 CFA Part 146,2206111], operators of injection wells must prolect all tests
described the part 146,2206111], operators of injection wells must prolect all tests
described to the part of the p

we suggest that the Der certries the from Jero's requested.

We suggest that the Der certries the from Jero's confinition process to been the theory feature a way and the process to be the Der certification of the Jero's confinition of the Jero's confi

We suggest expanded use in the final RMB/EIS and grazing supplement of summary tables (such as Table 4-1) for comparing environmental consequences between alternatives. Dur specific concern is to use the summary tables consolidate environmental impact disclosure for water quality beneficial us watershed protection, and for air quality and air quality related values.

Riparian Areas - Wetlands

Areas of existing poor rigarian area conditions are recognized in the RRO/Fils and Grazing Supplement. We commend Bild for addressing management direction to improve rigarian account of the second section to improve rigarian account of the second section of the section of the section section of the section sectio

The BMP/EIS discusses habitat values of the resource area wetland-riparian areas. Waterfowl habitat condition is not expected to "improve significantly on Category I allotaments" in the Gas Hills grazing

planning area, except for only small areas (Grazing Supplement page 38). This direction appears to contradict the fairly aggressive direction in the rest of the Supplement to correct depende wethand-ipparian conditions. Schandra for to be described. Examples include DMD guidelines for forage utilization rates and ecological conditions necessary for metrips water quality standards/ enhanced the contradiction of the contradicti

Logging within 100 feet of perental streams would be allowed (page 35). More specific RP stipulations and management criteria should be described that would provide adequate protection of injurial areas and saccidated and account of the stream of the str

Air Quality

Entropent Y

Cairsions of 'potentially desperous pases' from oil and gas wells are recognized on ROP/EIS pages 224 and 273. The flaring of sour gas at intelvidual wells should be addressed. Flaring is a significant source of sulfur dioxide emissions at many dynamic wellheads. It may contribute to acid expectation in meanty wilderness creat. The MOIO is concerned about flaring in sailfur dioxide emissions from the natural gas indestry in bycoing. Currently, these emissions are not regulated by the State except possibly as open burning or mergency upsets, yet such emissions may in some instances be a routine planned activity. It is recommended that the MIN (through MO direction) in the contribution of the source of the sou

Resource Monitoring

We realize that detailed resource constoring requirements are usually developed at the activity planning stage. Due to the technical complexities involved in designing and implementing a monitoring program that adequately little waterwhed activities and water quality objectives (including little waterwhed activities and water quality objectives (including little waterwhed activities and water quality objectives (including little water little and little water little wat

- o goals and objectives,
- types of surveys (long-term, intensive) or assessments [including habitat evaluations and biomonitoring) to be used,

.

- parameters and frequency to be monitored and their suitability in achieving the monitoring goals and objectives,
- management and environmental indicators, e.g., aquatic habitat, sediment delivery, to be used in assessing impacts of past, ongoing, and proposed activities,
- use of activity monitoring in sensitive areas
- monitoring responsibilities of BLM, mineral development lease/claim holders, and other state and federal agencies,
- mechanism for monitoring implementation,
- determination of adequacy of best management practices.
- reporting requirements.
- position or person responsible for munitoring program data collection, analysis, reporting, etc.,
- wegetation (including riparian area) monitoring intensity,
- fisheries objectives, monitoring methodology, and threshhold levels for modification in management direction,
- the feedback loop to achieve timely modifications to activities in response to monitoring results.



LINITED STATES DEPARTMENT OF THE INTERIOR DEPARTMENT OF THE INTER FISH AND WILDLIFE SERVICE Endangered Species, Field Office Federal Bidg., U.S. Courthouse 30 South Park 30 South Park NOVE PROPERTY OF THE PROPERTY OF

December 15, 1986

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W.02 Lander RM HEHORANDUH

State Director, BLM, Wyoming State Office, Cheyeone, WY

Prom: Acting Field Supervisor, FWS, Endangered Species, Muleca, MT

Subject: Lander Resource Management Flam Biological Assessment

We have ceviewed your blological assessment (M) and Lander becomes Min-assest Fin (MH) Final Environmental Lapact Enteware (FIS). Based de-monstration of the Management called a final final final final final final final ections, and the amagement called discussed in the MA, we concert with your determination that the Lander BH will be advanced; affect the endangered state of the Management of the Management of the Management of the state of the Management of the Management of the Management of the threatment of the Management of the Management

We realize that the presprine Islam, hisch-footed farret, grittly herr, and gray welf are not currently house to accept the Landar Estavate Area (EA) and that there are limited factowary actions that you can be insulved in at the present time. Newver, we were disappointed by the last of apecific regarding threatment and endeagered (TGS) species in the MAT. Section [Tail()] at to use their authorities to carry our progress for the conservation of TE appoints. Forthermore, the MAT process provides the appointment for the management (ISA) to set a positive snaasgement direction that will promote conservation and reaventy of listed appoints. This is true not only for the listed appoint.

Consultation on T/E species, pursuant to Section 7(m)(2) of ESA should be completed prior to insuence of the FEES. The intent of Section 7 consultation to insure that T/E species are considered, and that mesagement actions to grotect 1/2 epocies are incorporated early in project and resource planning

The PEIS preferred strengther identifies the use of second centralion and "An inframe Company" (190) attributions for protect TER sports. MSO stipu-istions for water quality, fisheries, tipation areas, and big game winter ranges can also provide important protection to TER sports subsidiar of load supplies. We would be happy to work with you in developing such stipulations and can provide samples of withpulations used in TER haptica.

Response to Letter 3

Thank your for your comments.

The BA states that specific habitat improvement projects for the baid emgle will be incorporated into the Red Caryon-Innder Slope Management Plan. Magraine wildlish habitat improvement projects and closure of the area to the state of the s

We emport your plans to initiate witter moreys, identify specific roset stem, and mattern and instruction of contents of constitution of specific stems, and matter and public lands. We also recommend constructing powerlines according to the specifications provided in the publication entitled "Suggrated Fractices for Support Protection on Powerlines - The State of the Art in 1981", if you do not have a copy of the publication, it cam be obtained for \$3.00 Through our bush was a copy of the publication, it cam be obtained for \$3.00 Through our public specific states and the publication, it cam be obtained for \$3.00 Through our publication.

Jim Fitzpatrick, Treasurer Raptor Research Foundation Carpenter St. Croix Nature Center 12805 St. Croix Trail Hastings, Minnesota 55033

Peregrine falcons have successfully nested in Myoning and Montana again since 1984, not 1985 as stated in the FEIS. As mentioned above, we are willing to assist you in developing conservation projects for the peregrine falcon in the Red Canyon-Lander Slope and the Sweetvater Canyon Wildenness Management Plans.

We excurring you to continue mapping prairie dog (Symaps up) towns and conducting wavehe for black-broade ferreis. Although the Markmet that the Lander MA does not intend to conduct may special management actions for the peregrine fallow, black-broade ferreis, princip bear, or gray will unless plans for these species, so that response actions are already identified when these species occupy the Lander to

these species occupy the Lander MA. The FEIS discusses several species of rare plants that occur within the Lander MA and are candidate taxa (Federal Register 50(189))3926-39363. Nowwert, none of the species are currently proposed for litting under ESA. As you know, candidate species have no legal protection under ESA; but we recommend and support actions by Federal species to protect candidates, so that fourwear and support actions by Federal species to protect candidates, so that fourwearn plans for Barneby's clower (Trifolium barnebyi) in the Red Canyon Management Unit, and for meadow pusportsee (Antenna's arount), sealir lockcress (Arabis pusills), and William's rockcress (A. William's lockcress (Arabis pusills), and William's rockcress (A. William's lockcress (Arabis pusills), and William's rockcress (A. William's Incommendate of the Support of

2

In summary, we have the following recommendations that should be pursued in the Lander RA:

- Development of contingency plans, stipulations, and seasonal restrictions for the bald eagle, peregrine falcon, black-footed ferret, grizzly bear, and gray woif;
- 2. Raptor proof all powerlines crossing the Lander RA;
- Follow BLM and FWS guidance for impact assessment and surveys for blackfooted ferrets;
- Initiate informal Section 7 consultation early in project planning and prior to development of final plans.

We would appreciate the upportunity to be involved in the development of management plans and project activities at an early stage. We recommend that bo Okaled (Vapada) Game and Table beparents noname coordinately be leveled review and snalysis early in the planning process we can usually would delays and major modifications that may be necessary when TLE species are not considered until late in the planning process. Your efforts to consult early in future planning is appreciated.

cc: ES, FWS, Cheyenne, WY WG6F, Lander, WY

CMT/clh

"Take Pride in America"

1





UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE 2120 Capitol Avenue, Room 7010 Cheyenne, Wyoming 82001

IN REPLY REFER TO:

February 13, 1986

Memorandu

To: Area Manager, Bureau of Land Management, Lander Resource Area, P.O. Box 589, Lander, Wyoming 82520

From: Project Leader, Ecological Services, Chevenne, Wyoming

Subject: Review of Lander Resource Management Plan
Draft Environmental Impact Statement (DEIS)

is low reviewed the subject Statement, and the following constitutes to coments on the U.S. If the and Hilling Service (EMS). We found that the DEIS identified most issues and offered management options under at least one of the proposed alternatives that would benefit withdiffe. The mix of program objectives under the different alternatives, makes it preferred alternatives, makes it preferred alternatives, peaks preferred alternatives, peaks of the preferred alternative speaks reasonable in most cases; however, we are concerned with the relaxing of wildlife stipulations for oil and gas leases, and the magnitude of public lands disposal.

leases, and the magnitude of public lands disposal. The status of local oil and gas industries is important, but protection of wildlife and aquatic resources should also be a primary consideration. The most important method for mitigating the impacts of oil and gas development involves good reclamation practices and avoidance of sensitive areas. Generally, on slopes of less than 15 percent gradient, dreamtically on steeper slopes. With these points in mind, we strongly recommend limited development on slopes with more than 15 percent gradient and timely reclamation of disturbed areas. We also recommend gradient and timely reclamation of disturbed areas. We also recommend without the state of the sound of the so

The DEIS contains many good, protective wildlife measures that should be incorporated into oil and gas leases to ensure adequate protection of important wildlife resources. We are, however, concerned with the reluctance of BLM to add restrictions to existing oil and gas leases and

the tendency to malver existing no-surface occupancy and seasonal restrictions. It is difficult to understand mby BMC anome todify existing oil and gas leases to protect other natural resources. In this width indicates that BMC amount of the season which indicates that BMC amount unitarially charge the terms and conditions of existing leases, be further clarified by referencing regulations or legal opinions.

Pertaining to raptor protection, we recommend that the nests of the listed nonendangered raptor species receive the following seasonal nesting protection.

Golden eagleFebruary	15	-	July 15
OspreyApril	15	-	August 15
Prairie falconMarch	15	-	August 1
MerlinApril	15	-	August 15
Ferruginous hawkMarch	15	-	July 15
Cooper's hawkApril	1	-	August 15
Burrowing owlApril	15	-	July 15
Swainson's hawkApril	1	-	July 15
GoshawkMarch	1	-	July 31
Red-tailed hawkApril	1	-	July 15

Application of raptor mest protective measures is dependent upon adequate inventories to identify potential conflicts before surface available, as is the case in many portions of the Resource Array, we highly recommend that your mildlife staff conduct an on-site inspection of the project to ensure raptor mest protection. As a general guidemaintained around each raptor nest, to smaller buffer zones could be designated on a site-by-rist beasis after consultation among BLM, state, and PMS biologists. Topographic relief, registative density, or constitutions and site-by-rist be reaction of order zones in come situations.

A significant increase in timber harvest is proposed under the preferred management alternative to accelerate the rate to three or four times the stating yield in order to alwaye bettle-initied trees. We question to fish and wildlife resources (i.e., carty nesting birds and big game foraging sites). Timber sales should be keeped to a level of production which the resource can safely sustain and not at the expense of other resources.

The preferred alternative indicates that partial custing will be allowed in stream rome. Due to the annitivity and importance of these assatic and rigarian areas, we recommend that all timber harvest maintain a "no cutting" protective buffer zone of at least 100 feet, measured laterally, from both edges of all personnial streams, we support the objective of the lander Slose management unit to maintain a ratio of 40

Response to Letter 4

Thank you for your comments.

percent cover to 60 percent forage on elk summer range. This cover/forage ratio should be a goal in the other timber management areas. All timber sales should also be coordinated with MGFD to protect and maintain important fish and wildlife resources.

and maintain important fish and wildlife resources.

We have serious concerns about your agency in plan to possibly dispose of 13,000 acres of public lands within the Lander Resource Area. Scattered parcels of public lands anythin the Lander Resource Area. Scattered parcels of public lands anything the lands have been altered or severely controlled the lands of the lands have been altered or severely cuntly for outdoor recreation, such as hunting and fishing. Scattered land parcels may seem officious to manage; however, a policy of control recreation servers winsing Buff management. In cases where it is truly in the best interest of the public and resources associated with the land obstoned of a tract, we recommed an equitable land schanger rather RNG programs. Currently, land exchanges are one of the best methods for SC acquire needed lands. Lie are particularly interested in riparian and well and areas that now support, or could be managed to support, our program needed, Buff has the responsibility to ensure protection of well ands and riparian meas when they are transferred to the private discussion of the programs of the proposal properties of the provise decrease of the provise of the program of the provise of t

Grazing Alternative C seems to be the preferred alternative to protect wildlife resources. Homever, we believe that a more realistic alternative mould be a combination of reduced livestock (Alternative C) and incorporation of the range improvements that would benefit mildlife contained in Alternative A.

A major concern to us is the existing condition of riparian and aquatic habitats in the Resource Area. The DEIs indicates (page 791) that poor riparian conditions are in evidence along many sterms, and symplicant loss of wody riparian vegetation has occurred over the last 50 years in other control over the condition of the condition of beaver management. The cummitative impacts table (page 50) results that little significant improvement could be expected for streams in the Bas Hill grazing area without a change in grazing management and than many overgrazed riparian zones in the Green Mountain grazing area would continue to reason he had been perfectly as the continue to reason had been perfectly as the continue to reason had been perfectly as the perfectly as the continue to the perfect of the perfect of

To maintain livestock forage production at the proposed higher level, intense management will be required to protect riparian zones, wetlands, and livestock forage production. We recommend that grazing pressure limited to a 40 percent utilization level on riparian areas. However,

livestock access to riparian or streamside zone in fair-to-poor condition may still have to be restricted further to allow for woody vegetation recovery and maintenance. With respect to streambank stability, water quality, and the timing of grazing in the riparian zone, recent research by EUI in Wooming indicates that stream banks are most unstable limiting cattle numbers in the riparian zone during spring did not stignificantly reduce the total amount of bank slumping caused by cattle, and water quality was adversely affected. We suggest that cattle be kept away from streams with untable bank outning seasons when soils been restored. We strongly recommend that sensitive areas be fenced to exclude cattle when the presence of cattle is shown to cause adverse impacts to mater quality, stream bank stability, vegetation, as well as riparian shround the respectation. In addition, plans for amaging a riparian shround the respectation. In addition, plans for amaging rainal made and there repented too. In addition, plans for amaging rainal made and the respectation of the develor of with full consideration for riparian and aquatic zones.

Another area of concern is proposed brush and noxious weed control in the vicinity of streams, sage grouse strutting grounds, and on wildlife winter range. We recomend a Lowell be buffer zone that prohibits brush nesting and brooding areas. In addition, no brush control more should be conducted on wildlife wintering areas without concurrence of Mowing Game and Fish Department (MFD). Mody riparian vegetation should also be protected for its high value for fish and wildlife. In riparian cides such as Tordon, and that noxious weeds be treated with selective tools, such as the wick applicator. The use of Tordon adjacent to stream with reproducing populations of trout should not be considered, such as Tordon, adjacent to the control of the control of

Coordination under provisions of Section 7 has not been completed between FS and BUM. Specific endangered species concerns or issues will be addressed by FMS at a later date through the consultation process. The Section 7, Endangered Species Act consultation should be included in the final ELS.

Thank you for the opportunity to comment on the DEIS. If you have any questions, we can be contacted at (307) 772-2374.

arthur Inderson

CC: Regional Director, FMS, Denver, CO (HR) MAILSTOP: 60100 Field Supervisor, FMS, 8111,815, 81 (HSS) Team Leader, FMS, Helma, MI (SS) Director, MSFD, Revenne, WY (SS) Teat Office, RMSFD, RMS, RMSFD, RMSFD



United States Department of the Interior NATIONAL PARK SERVICE ROCKY MOUNTAIN REGIONAL OFFICE 655 Point Vision

655 Parfet Trace

515 Parfet Trace

517 (BOX-PF)

JAN 15 TON

Memorandu

To: Lunder Resource Area Manager, Bureau of Land Management, Lander,

From: Associate Regional Director, Planning and Resource Preservation.

Subject: Draft Resource Management Flan/Zovironmental Impact Statement for the Lander Resource Area, Sureau of Land Management (DES 85/50)

This memorandum constitutes our comments on the draft Resource Hansgement Flan/Zovironments! Impact Statement (RMF/ZIS).

No areas administred by the National Park Service would be directly affected by jupinanotation of any of the alternatives outlied in the draft NACITS. The document includes excelling directions or necreation, bistoric trails, of National Register alignifity. Likewise, the discussions of proposed hactonal dargiest alignifity. Likewise, the discussions of proposed hactonal dargiest alignifity. Accessed often natural resources beginning on pass 151 are support tale and well dome, before graphics for the limitime of the MLT we make the halful.

In sum, the concerns (direct and indirect) of the National Park Service have been covered in the draft BPO/ELS. Souverer, we have some comments you may wish to consider as the final document is being prepared.

The document, as appected, reflects the Bursau of Land Heangement policy of multiple use of all reservoes. The four slatematives wish in a general research, which was not been accounted by the research with the concervation the conclusion that Alternative A (page 28) , would be the least beneficial choice of all the alternatives from a cultrafilation bitary researchers protection viewpoint. "Dependention of this alternative would deversely affect the Oregon/Hormon Trail corridor and proposal areas and account of the alternative would deversely affect the Oregon/Hormon Trail corridor and proposal areas."

Although we note (page 252) that implementation of Alternative B ... would be the most beneficial choice of all the alternatives from a cultural natural history resource protection visupoist," we gate that the state of the control of the control

featered throughout the draft BUP/EIS are references to "hational significance." In some instances the criteria on which "mational significance." In some instances the criteria on which "mational significance in heaved me clear (i.g., instrumed Bugister slightliter, and significance will be seen to be supported by the significance will not be conveyable." Although we agree with the verious criteria for archange and disposal, we could not, from the material presented, ascertain how on by how 'maticals isgrafticance' is a detarmined.

in this small of the second of the condense of

A few comments on the geological aspects of the "Wildermess Supplement" are in order. For each wildermess study ares there is a discussion of geology and geologic resources. Nowhere could we find section of paleocological resources, even though appearse of eignificant fessiliferows strate occur in the Lamber Securice Area.

Appendix III of the "Wilderness Supplement" contains a geologic time scale. Some breadings (for sample, the Terriary Period) could be mislesding to the general public, which usually is unaware of the direction to read the scale Also, the scale omits the Ordoviciae Period.

Thank you for the opportunity to review the draft RMP/EIS.

Al Alter



Responses to Letter 5

- While there are paleontological resources within the Lander Resource Area, there are no recorded significant paleontological resources within any of the WSAs. Thus, these resources would be unaffected by wilderness designation or nondesignation.
- Thank you for bringing to our attention the problems with the geologic time scale. It has been revised for the final EIS.

6



STATE OF WYOMING

ED HERSCHLER

February 12, 1986

Mr. Jack Kelly Lander Resource Area Manager Bureau of Land Management P.O. Box 589 Lander, WY 82520

Dear Mr. Kelly:

The Draft Re_ource Management Plan/Environmental Impact Statement/Grazing Supplement/Milderness Supplement for the Lander Resource Area have been circulated for state agency review. Copies of agency comments are enclosed for your consideration and detailed observations and corrections which was a number of detailed observations and corrections which was not considerated into the final Lander Area Resource Management Plan. There are also several requests for additional information and further clarification on proposed management directions which should be provided in the final plan.

should be provided in the final plan.

In general, it appears that the preferred management alternative presents a reasonable balance between resource production and environmental protection on an area-wide basis. Site-specific concerns and potential impacts, including those addressed in more detail during the will obviously have to be addressed in more detail during the preferred management called the preferred management activities allowed under the preferred management alternative. The potential reductions in general restrictions on alternative. The potential reductions will require close consultation and coordination with pertinent state agencies during the proposed case-by-case examinations, the proposed case-by-case examinations.

Mr. Jack Kelly February 12, 1986 Page 2

management appears appropriate. Insofar as the Sweetwater Canyon view of the canyon it appears that there are several attributes of the canyon in lieu of a wilderness designation. As I have indicated in the past, I intend to consider the BML wilderness are evaluations and valid formulate a position on the various recommendations and will formulate a position on the various recommendations when the total statewide picture is available.

Thank you for the opportunity to review and comment on this plan. Please keep me informed of the progress in this effort.

Exercise.

EH:pcl Enclosures

cc: Hillary Oden

Response to Letter 6

 Thank you for your comments. Please be assured that BLM will work with the State of Wyoming regarding public comments, new resource information, use and management opportunities, and enhancement needs.



Wyoming State Archives, Museums & Historical Department

Ristorie Procervation Offi Robert D. Bush, Ph. D. Director 897-777-7819

Cheyenne, WI 88008

December 17, 1985

Mr. Warren White State Planning Coordinator Herschler Building, 2nd Floor East Cheyenne, Myoming 82002

RE: 6Draft Resource Management Plan for Land Resource Area--3 documents

Fred Chapman of our staff has received information concerning the aforementioned draft resource management plan. Thank you for giving us the opportunity to comment γ

The documents under consideration acknowledge that intensive cultural The documents under consideration acknowledge that intensive cultural resource surveys have not been conducted on all land within the rederant resources. The consideration of the surveyed for cultural resources. Prior to any ground disturbing activity, an on-site cultural resource survey of the project reas should be conducted and adverse impact to any significant cultural resource sites to be conducted by a professionally qualified archeologist or historian. A report detailing the results of these efforts must be reviewed by SMPD staff prior to not recommenting on the projects of effects on cultural resource staff prior to not recommenting on the projects effects on cultural resources. sites

If you have any questions please contact Mr. Chapman at 777-6530.

Sincerely, Mashinge Mark Junge Deputy SHPD

POR: Dr. Robert D. Bush, Ph.D. State Historic Preservation Officer

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State Engineer's Office

CHEYENNE, WYOMING 82002

HERSCHLER BUILDING January 16, 1986

FROM:

Paul Cleary, Natural Resources Analyst State Planning Coordinator's Office

Louis E. Allen, Water Resources Engineer Ma

SUB-TECT.

State Identifier No. 84-138; Lander Resource Area Management Plan Draft EIS, and Wilderness Supplement Draft EIS; BLM, 1985. We have a few comments to offer after review of the three subject DEIS's. The draft plan appears to generally reflect good management practices for multiple uses of the Resources Area.

Resource Management Plan DEIS

Page 76, Water Rights. Relative to the water rights adjudication in the Big Horn River System, actually the proceedings in Water Division III are still continging and the material in this report is not current.
 been adjudicated by atipulated decree dated February 9, 1983. BLM water rights with State Engineer permits that are unadjudicated will be subject to the ongoing review and adjudication process of all remaining State-wavefed permits.

2. Pages 76-77, Water Rights. The discussion of the Sweetwater River, tributary of the North Platte River, contains errors and apparent contains. The North Platte River is not under a series of the River is apportioned among the States of Colorado, Wyoning, and Nebraska under a U.S. Supremo Court Ecree (1945) and an Order modifying the Decree (1952). The Sweetwer River would be included under a section limiting storage of water in Wyoning for irrigation on the North Platte River or its tributaries above Fathfinder Reservoir to 18500 exer-feet.

The limitation of 168,000 acres of land being irrigated, as noted on page 77, is correct. The mentioned "157,000 acres" being irrigated is questionable. We consider the full 168,000 are limit as being under irrigation in any one year. However, 157,000 acres

Response to Letter 7

Thank you for your comments.

Responses to Letter 8

- 1. Wilderness designation would preclude water impoundments and diversions within the area. It would also require that high water quality be maintained. It is unlikely that such a transbasin water diversion as you suggest would need physical facilities in the WSA or adversely affect water quality.
- 2. This section has been deleted from the final EIS.

Faul Cleary January 16, 1986 Fage J

and 18,000 acre-fect are not additive, as suggested in the paragraph test. Since the limitations on irrigation and on water storage for irrigation value across the storage have been irrigation with cartorage have been issued for a number of years. The Decree does provide for "ordinary and usual" water developments for "domestic, municipal and actor, watering purposes and consumption" and, with the proper State Engineer permits, some of these municipals was may be the allowed.

Although this section is titled "Water Rights", there is no mention of State lower regularing State Dag Incompress for the diversion, atorage, or use of the State of the Stat

Grazing Supplement DEIS

- 3. Page 9, Mater Developments. This is an appropriate place to mention that a State Engineer permit is needed prior to commencing construction of a proposed development of the State's water for any purpose. Mater developments are mentioned numerous times in subsequent pages and the necessity for the appropriate State Engineer permit for each development, whether of surface water or underground water, needs to be brought out.
- 4. Page \$0, 2nd col., 3rd par. Larger reservoirs for stockwater are suggested so as to include fishery benefits. Assuming a sufficient water supply for the priority date of the reservoir, there may be a problem in the Swettwater Kiver drainage under the North Platte River Decree for such use. The question usual drains over whether this was an "ordinary and unail-use of vater for "domestic, municipal and stock watering purposes".
- Appendix A, Green Mountain Study Area, page 9, 6th par. In this context, we suggest adding "under the appropriate State Engineer permits" following "developed" at the end of the first sentence.

Wilderness Supplement DEIS

 Summary, pages vii-viii. We concur with the Proposed Action for the Sweetwater Rocks WA's and the Copper Mountain WSA, which is to not designate them as wilderness areas but to manage them

Paul Cleary January 16, 1986 Page 3

under multiple-use policies. We appreciate the reduction in size of the Swettwater Canyon NSA Proposed Action to 5760 acres of the casyon for multiple-use management. There have been proposed of Town Complex management. There have been proposed of Town Complex management. There have been proposed of Town Complex management of the Swettwater River for conveyance. We would prefer movideness designation for this WSA so that options could be kept open for such water developments.

7. Page 46, continued to page 48. This paragraph refers to six designated National Forest wilderness areas in connection with the 1904 Wilderness Act. Following the passage of the Viyoning Wilderness Act of 1994, the Cloud Feak Wilderness Area in the Bighorn Mountains was designated, adding some lands to what was forererly the Cloud Feak Frantise Area. This area should be noted, as it is only a short distance from the Copper-Mountain SA.

The six wilderness areas noted above are referred to again in Appendix V, page 127, lst col., 2nd par. It seems the document should be brought up-to-date by including the designations of the Wyoming Wilderness Act of 1984, which does not appear to be mentione

Thank you for the opportunity to review these DEIS's. Your referral memorandum is being returned as requested.

IFA/hr

cc: George L. Christopulos State Engineer

Gordon W. Fassett Deputy State Engineer



ED HERSCHLER

Same and Fish Department

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BILL MORE

January 10, 1986

EIS 2547
USDI/BLM-Rock Springs Dist.
Lander Resource Management
Plan-Draft EIS and
Wilderness/Grazing
Supplements

Mr. Warren White State Planning Coordinator Herschler Bldg. Cheyenne, WY 82002

Attention: Mr. Paul Cleary

Dear Mr. White:

In response to your notification SIM 84-138, we have reviewed the documents and offer the following comments and information for use in making the considerations for wildlife in the final EIS more accurate and complete.

The Lander Draft IIS covers most of the wildlife issues identifies in early coordination meetings beld between the Bureau of Land Management and the Myoning Gase and Fish Bopartment, and incorporates away of the measures within the resource area. However, we have found certain errors in the team of tables which we would appreciate having corrected. More importantly, there are also management proposals included in the document that were not preferred alternatives, and which we consider to be insdequent in their present form. There are also some consistons in proposed management direction, and some proposed management directions that need for three clarification.

Specific comments are as follows:

Lander Slope and Red Canyon Management Unit

Energy and Minerals:

Map 5-1, page 390 appears mislending because it indicates that all oil and gas leases issued in the Lander Slope and Rec Claryon Menagement Units will carry no-serface-occupancy (RSO) stipulation will be special to protect water quality attacks that RSO stipulations will be applied to protect water quality mislends to the stipulation will be applied to protect water quality mislends to be supported by the stipulation of the stipulation is the state search as includations be the sole source to the state of the stipulations be the sole source to the state of t

Headquarters: 5400 Bishop Boulevard, Cheyenne, Wyorning 82002

Mr. Warren White January 10, 1986 Page 2 - EIS 2547.

of protection for crucial wildlife habitats. The discussion on page 320 of the IIS indicates the MSO stipulation does not apply to the entire Lander of the most important surface resource values in these two units - crucial ski wister range - will not receive any protection from oil and gas exploration and development. Such development could eliminate or seriously reduce that habitat.

Any loss of crucial elk winter range in the Lander Slope or Red Canyon Management Units will have a serious negative impact on both the Lander elk herd and the Lander mule deer herd, because previous extensive subdivision development all along the lower edge of the elk winter range, as well as into the heart of the winter range, has reduced the arreage available to objectives. Seasonal restrictions will not prevent loss of crucial elk winter range to oli and gas acquiration and/or development. A house to oli and gas acquiration and/or development. The area within these two management units has low potential for oil and gas development. A in the area pickes up. More importantly, it should prevent the loss of crucial elk winter range needed to maintain the population objective for the Lander elk herd. Withdrawal of crucial elk winter range from future oil and gas lessing would be even better because of the tenous nature of the admitted to the control of the second of the SSO citylation be applied to any oil and gas lesses issued on crucial elk winter range in the Lander Slope and Red Canyon Management Units.

Numer range in the Lander Slope and Red Canyon Management Units. Phanaphatas: In Parisf LES Land recommend that leasing, prospecting and exploration for phosphates be allowed in the Lander Slope Management Unit (page 200). This recommendation would be detrimental to wildlife for the same reasons explained in the above comments for uli and gas leasing in the Lander Slope Unit. The LES Lander Lander

Forest Management:

The forest management discussion on pages 119-131 of the EIS points out that the proposed management direction is to accelerate the rate of cutting of timber to three or four times the sustainable yield of ! MMBF, in order

Responses to Letter 9

- Thank you for your comment. We have adopted your suggestion to use a block pattern using traditional quarter section lines for the Sweetwater Canyon Proposed Action.
- It is true that a wilderness designation would restrict certain types of wildlife projects. A wilderness designation would not significantly restrict hunter access into the Sweetwater Rocks WSAs.
- The section you refer to has been deleted from the final EIS.
- The Lankin Creek (1622) and Jamerman Pastures (1623) allotments are within the Green Mountain EIS area, and the final text has been changed to correct this error.

The Diamond Springs Allotment (1509) is not contiguous to or partially contained within the WSA boundaries. The southern boundary of allotment 1509 is in the center of sections, 10, 11, and 12, T. 30 N., R. 90 W. This boundary is approximately 2½ miles north of the Lankin Dome WSA boundary; thus, it is not discussed in the "Affected Environment" section.

- 5. This section has been rewritten.
- We have added a reference to the pronghorn crucial winter range.
- 7. See response 4 above.

Mr. Warren White January 10, 1986 Page 3 - EIS 2547.

to salvage the large volume of beetle-killed trees and meet the current high demand. However, this suggests that within thirty to forty years there will be no harvestable timber on suitable timber hervest arres within the recommendation of the control of the co

Road Management:

Although soumer elk range occurs within the resource area, there is no mantion of open road density attendards within the ELS. Seasonal closurer to reporter vintering dever and its are accallent, but the protect vintering dever and the are accallent, but the protect vintering dever and the account of the protect vintering development of the protect vintering development of the protect vintering development of the protect vintering v

East Fork and Whiskey Management Units

Energy and Minerals:

Oil and Gas: Page 341 - Map 5-2C East Fork and Page 350 - Map 5-32 Whiskey Mountain. BLM State Directors, over the years since 1969, have signed several documents which clearly state that the preferred management

Mr. Warren White January 10, 1986 Page 4 - EIS 2547.

direction on the Whiskey Mountain bighorn sheep winter range and the East Fork elk winter range should include no leasing of minerals, and that both these areas should be withdrawn from mineral (oil and gas) leasing in order Agreement signed by the BLM, Womain Came and 7th Dept., and the USFS for the management of Whitey Mountain, as well as the most recent edition of the Whitey Mountain BOY (which was also signed by the Basil mol District the Whitey Mountain BOY (which was also signed by the Basil mol District was a signed by the White Company of the Whitey Mountain BOY (which was also signed by the Basil mol District was a signed by the Basil mol District was a signed by the Whitey Whitey with the Whitey Formation and the Whitey Agreement Agreement for the East Fork winter range signed by the State Director of the Whitey Mountain leasing in 1970. The Cooperative Management Agreement for the East Fork winter range and the Whitey Mountain Use of the Whitey Mountain Company (white Whitey Mountain Use of the Whitey Mountain Paper Whitey Whitey

Fish and Wildlife

Fage 29) (montioned before under mineral leasing) Paragraph 4. This process has been contradicted by statements in the Energy and Mineral sectifies the statement of the Energy and Mineral sectifies and Millelline Service and the Wooding Game and Fish Department would no longer be in effect. We certainly hope this is not the intent, and recommend this be clarified.

Hr. Warren White January 10, 1986 Page 5 - EIS 2547.

Energy and Minerals:

Access

We recommend that aquisition of public access be investigated in the Vijakey Mountain Management Unit which would allow hunters into the End Creak portion of the sheep vinter range. This access is needed to properly manage vildlife in this section of the county. There presently is little or no public access.

The Red Creek area is an important sheep visitor range, yet the cattle and horse allotment (Bo. 2124) appear to be basely used leaving may little forage for bighorn sheep and other visities. It livesteds grazing practices were charged in this drainage, visitific sholtest would greatly be improved. We suggest better livestock management practices be considered in this area which could improve the range to benefit both livestock and widdles.

Dubois Badlands Management Unit

In the Dubois Radiands Management Unit, Page 346 - Map 5-29, we suggest the MSO stipulation be extended to the entire area, instead of just that portion designated on the map. The whole area provides important habitat for bighorn sheep, elk, deer, antelope, and other wildlife.

Green Mountain Management Unit

Areas identified as crucial widdlife habitats in this unit about that there is algorithm widdle reconcer wise on these lands, set on we exceed mend essential stipulations for oil and gas leases be applied to protect those values. In ESO or areas with high oil/say spotential, we would not object to waiving seasonal stipulations where it is possible for the company to nitigate afterers impacts.

We support the MSO limitation on crucial winter range for the Green Mountain elk herd. We also suggest at least one of the alternatives to the plan should consider limited time-period stipulations in order that seissic exploration would avoid peak recreational periods on Green Mountain.

The decision to require a plan of operations for exploration and development of locatable minerals on the Green Mountain elk crucial winter ranges is good. Mitigation of vilidite lowes/impacts should be included in the plan. In order to maintain objectives for this elk herd, we recommend the same protection be applied to identified calving habitate.

Mr. Warren White January 10, 1986 Page 6 - EIS 2547.

Forest Management:

Of three different timber harvest levels considered on Green Mountain, the median level of 3.5 - 4.0 MBF has been chosen. The actual amount of timber harveste is of less importance to wildlife than the design of the partner of the control of the

Timber harvest by compartments would produce less "edge" than scattering smaller cuts over the entire mountain, but it also would reduce the area affected by homan disturbances. Maintenance of adequate foraging areas for alk and deer could be effected by controlled burns in other compartments, to offset the losses is cut compartments.

Landownership Adjustments and Utility Systems

On the Green Mountain Management Unit, changing ownership of Tract 135 would present no wildlife problems if it were traded for some of the smaller do-aree private tracts on the mountain. Tract 134 is accessed by the Green Mountain Loop Road and could be developed for recreational homesites if soid, we would agree to this tract being traded, preferably for land elsewhere on the same road and adjacent to other BLM lands (such as in Section 27, 37, 5, or to 4 1728, Bally).

Recreation

The proposal to maintain existing recreational facilities on Green Mountain, and rehabilitate and reclaim disturbed and hazardous areas is a good one and we support it. We recommend the Split Rock and Devil's Gate sites also be maintained.

Recommended restrictions on ORV use are good. We are glad to see that "picking up big game kills" is a necessary task that is exempt from the existing restrictions.

We strongly support the recommended search for public access on roads listed in Table 5-2. Access through Beef Caps and told Cap roads would be sepecially hendricial in meeting wildlife objectives. If public access for that pertion of the Bison basin Road from Investwater Station to Bison Basin is not a fact, we suggest obtaining logal access also be considered in this Mr. Warren White January 10, 1986 Page 7 - EIS 2547.

Beaver Creek Management Unit

In the Beaver Creek Management Unit, we suggest tracts 124, 127, and 133 be traded for land that adjoins existing BLM land.

Gas Hills Management Unit

In the Gas Hills Management Unit, a number of tracts are proposed for sale or exchange. We do have some conserns with several of these tracts, and the public access. Tracts 137 and 138 are included from other MRI lands, but adjoin a state section that abute a sailed block of MRI land. These two creates are section that abute a sailed block of MRI land. These two creates are section that abute a sailed block of MRI land. These two creates are section that abute a sailed block of MRI land. These two creates are section that abute a sailed block of MRI land. These two creates are section of MRI land. The section of MRI land is the section of MRI land. The section of MRI land is the section of MRI land in the section of MRI land is the section of MRI land in the section of MRI land is section of MRI land in the section of MRI land is section of MRI land in the section of MRI land is section of MRI land in the section of MRI land in the section of MRI land is section of MRI land in the section of MRI land in t

Fire Management:

Whiskey Mountain:

We feel that full suppression for fire management on Whiskey Mountain is not a preferred alternative. Fire is probably one of the best shalitat management of the probably of

We also feel the BLM's preferred alternative for full fire suppression on Whiskey Mountain is contrary to the Shoshone Forest Plan to allow natural fires to occur in the immediately adjacent Firstpartick Wilderness to improve bighors sheep habitat. Since the BLM and U.S.F.S. have overriding objectives to improve and maintain these habitat through the Miskay Mountain

Mr. Warren White January 10, 1986 Page 8 - EIS 2547.

Cooperative Agreement, it seems to us to be counterproductive, and in conflict with that agreement, for the BM to support full fire suppression protective agreement for initial attack with the U.S. Forest Exercise, page 335, should be revised so as to not conflict with the Whiskey Mountain Cooperative Agreement.

In summation, we feel the Whiskey Hountain area should have a very lainted fire suppression preferred alternative, sepacially in the confered should specifie a state of the state of the

South Pass

Fage 329, it is stated that prescribed burns will be used to enhance certain vegetative types such as aspen, willow-riparian, shrubs, and confere sepecially for mose shalted. These are very good objectives, bowere, notive that supports full fire suppression. We suggest the designation of areas that could benefit from latied or no fire suppression, to accomplish the objectives for wildlife set forth for prescribed burns. Fire suppression, on many cases, has prevented natural rebabilitation of our aspectiones, willow patches, momenous other shrubs, and conifers to the determinant of willing habitat.

Off-Road Vehicles:

Dubois Badlands

We support the preferred alternative to close the entire unit to offcand evoltic (009) user. This is compatible with our sheep head objectives for this area. Excessive ONV use could be very detrimental to the yearlong sheep habitat of this area, sepacially during critical times was a lambing, mursing, winter, etc. It would also be very destructive to the fragile soils and vegetation of the area.

Whiskey Mountain:

We support the preferred alternative to limit vehicle use to designated roads and vehicle routes and impose seasonal closures in some areas. We feel local public hearings should be held on proposed road closures, prior to implementation.

Mr. Warren White January 10, 1986 Page 9 - EIS 2547.

Specific Comments on the Resource Management Plan and Draft ElS, in Order of Pagination of the Document:

- Page 22: Wildlife and Fisheries Program, General, 3rd paragraph: We are pleased to see that bridges and culverts will be designed and installed to maintain adequate fish passage. However, bottomless arch structures are preferred over the use of culverts.
- Page 33: Technically, the potential reintroduction of bighorn sheep into the Sweetwater Rocks should be listed under Alternative A, Existing Management, because existing managers have agreed to follow the Game and Fish lead in this matter.
- 3. Page 39: In the ORV plan, snowmobiles are treated separately from other ORVs in seasonal closures on Green Mountain and the Lander Slope. We would prefer the plan also specify how other snow-traveling vehicles (such as three-wheelers) are to be treated.
- 4. Page 44 and 55: Table 2-3, II. Fish and Wildlife: With the exception of that segment which addresses mineral exploration (top of page 45), we support Alternative A of II. Fish and Wildlife, as it offers the most protection for fisheries resources. Although we are not entirely in agreement with any of the segments that address mineral exploration under the four alternatives in II. Fish and Wildlife, fisheries impacts would probably be fewer with the Preferred Alternative.
- 5. Fage 60: The discussion of the effects of oil and gas development on the newironment suggests that disturbed acres are reclaimed within three to five years to mear original conditions. This is accurate only in those instances where soil and moisture conditions are ideal. On most disturbed sites it will take well over ten years to see vegetation restablished near the original condition. There are several examples in the Resource Area where reclamation attempts have been hearly total failures. The Life greatly overstates the rate at which discribed lands cally addressed.
- 6. Page 84: Tables 3-8: There is an error in the fish species listed for Big and Little Bermit Guich. Game fish present in Big Bermit Guich should be rainbow and cutthroat trout, while in Little Hermit Guich, game fish present should be <u>cutthroat trout</u> rather than rainbow trout.
- 7. Fage 97: Map 3-16, Elk Herd Unit boundaries, has a couple errors on it. The map incorrectly shows a portion of the Ferris herd unit lying east of the Mattlemanks herd unit and north of Vyosing Highway 220. Also, the line between the Shamrock and Steamboat elk herds is the Wassutter-Crooks Gap Road, nor the Bison basin Road as shown on the map.

Hr. Warren White January 10, 1986 Page 10 - EIS 2547.

- Page 98: Map 3-17, Mule Deer Herd Unit boundaries are out of date and do not show current herd unit boundaries for the Sweetwater herd unit. This will now be herd number 46.
- Page 100: Map 3-19, Bighorn Sheep Herd Unit boundaries, omits the small corner of the Ferris herd unit in the southeast corner of the resource area. The boundary of bighorn sheep Area 22 follows the forest southern boundary. Above this is Area F4, Younts Peak.
- Page 107: Map 3-26, Sage Grouse Breeding-Nesting Areas fails to show the lek/nesting complex for Eagles Nest Reservoir at NE 18, T25N, R93W.
- Page 108: On Table 3-11, the following correction should be made: Lander "Approximate I of Population in Lander R.A." changed to 951.

Wiggins Fork (No. 35) Population objective changed to 4,000.
Warm Spring (No. 36) Population objective changed to 800.
Steamboat (No. 26) Population objective changed to 500.

- 12. Fage 110: Table 3-13, Mule Deer Herd Unit Date, needs to be updated to reflect herd unit changes made when the Sweetwater herd unit was created from Areas 96 and 97. If Supers as presented in this table for the Green Mountain and Beaver Kim herd units are in error (and Green Mountain should be replaced by "Sweetwater").
- 13. Page 113: In the leading paragraph on bighorn sheep habitat requirements, the plan states that forbs and grasses are the major diet components "From late fail to early summer." This should be "from early summer to late fail."
- 14. Page 118: In the section on bald eagles, the plan fails to mention wintering bald eagles observed using the lower portions of the Swetwater River near Devil's Gate. In addition, a pair of bald eagles are known to winter on the Wind River below the town of Dubois and above the Indian reservation
- 15. Page 127: Acces, Green Mountain Management Unit, 5th paragraph: Monitoring stations were established to check on sitetion, but only visual observations were made. Neat of the siltation entering East Cottomwood Greek was coming from the logging road and the Green Mountain loop road.
- 16. Page 131: Under Dubois Area Management Unit, another area that would benefit from prescribed burning are various timbered stands.
- 17. Page 133: The discussion on this page of hunting recreation in the resource area points out the importance of big game hunting, but does not address hunting recreation provided by upland game, game birds, and

Mr. Warren White January 10, 1986 Page 11 - EIS 2547.

waterfowl. The Sweetwater Elver drainage within the resource area is an important sage grouse bunking area. There has been an average annual hervest of nearly 10,000 arge grouse and an annual average of 3,000 arge These levels of harvest and recreation days are surpassed by only one other area in the state. Recreation provided by game birds and waterfowl in the Lander Resource Area should be pointed out in the ElS in conjunction with big game hording values.

- Page 134: Snowmobiling is not a primary recreation activity on Whiskey Mountain and East Fork, but outdoor education, horseback riding and
- 19. Page 135: Table 3-20, Nunter Days. This table is incomplete in that it does not explain how this data is derived. The footnote is also in error. Nunter days are calculated by multiplying the average number of days per hunter by the total number of hunters.
- 20. Page 137: Another important aspect of the Dubois Badlands is mule deer
- 21. Page 137: Correction. The text stated that 500 head of elk are present on Red Canyon during winter, when the correct figure should be 600 head.
- 22. Page 12: The last paragraph for OBV Designations cites Map 3-32, but this map is well back in the pian on page 175. We suggest it be placed access refers to Map 3-33, which is back on page 180. The text states that this map shows LDF and county roads, but it fails to show at least the following county roads.

Matrona No. 322 Sweetwater No. 22 Sweetwater No. 23 Natrona No. 321 Natrona No. 322

Dry Creek Road Turkey Track Road Bairoil Road

The map shows some state highways, but omits the Sand Draw and Gas Hills Roads, which are now State Highways 135 and 136. The map also falls to show the rest of the Bison Basin Road (BLM 3221) from Bison Basin to US 287.

23. Page 187: In this section, it cannot be assumed that all habitat types will be restored at a rate of one third in 60 years. It is more likely that some habitat types will be easily reclaimed or improved, but that crucial habitats will suffer from a much slower reclamation rate. The generalized assumption in the text appears to us to be misleading.

Mr. Warren White January 10, 1986 Page 12 - EIS 2547.

- 24. Fagt [88] In the section on Seasonal Restrictions, while it is true the oil and gas industry is inconvenienced by seasonal stipulations, we feel many of the problems they experience could be movided by better jamning company waits until their lease is about to expire before expressing on interest in drilling, which compresses the drilling schedule. It appears to use that careful planning, and possible site development in earlier years, could reduce overall drilling the contraints.
- 25. Page 190: Despite the citation of Thomas 1983, the estimate that habitat avoidance somes could be 30 to 100 percent greater than actual habitat losses is 100 conservative. Using a reasonable sovidance range of 400 yards for aik, the actual area of avoidance around a 10 are disturbance would be over 130 acres, about 15 times actual habitat loss.
- 26. Page 194: The section on oil and gas industry impacts on wildlife does not address illegal loses to posching. While companies may have rules against such activity, posching still occurs and will increase as the number of people increases. Posching of animals such as raptors, Bighorn wheep, or soose can have significant impacts on populations.
- 27. Fagt 202: The section on geophysical exploration correctly states that seismograph crows now rapidly, limiting disturbances to recreationists often coincided with opening dates or weakend during data and six bunting seasons on Green Mountain. Since most of the recreational bunting occurs on those few days, this exploration activity has been determined to the second of the section of the second of the
- 28. Fage 204: Table 4-3, impacts to Recreation. The section on impacts to Bmoting incorrectly states that the impacts of Alternative D Oreferred on active fails to apply protective stipulations to oil and gas developments as the HIS ways, impacts will be the same as Alternative C (generally magnitus), not be apply and the same as Alternative C (generally magnitus), not a.
- 29. Page 226: Since it is specific with other herd units, we suggest the plan state in the last paragraph on this page that the Green Mountain elk and Sweetwater mule deer herd units would be significantly impacted, not just that elk and mule deer would be impacted.
- 30. Page 228: The plan is in error when it states that only sage grouse and raptors would be significantly impacted if the Lost Creek uranium depo-sits were developed. These deposits lie in heavily used winter range

Mr. Warren White January 10, 1986 Page 13 - EIS 2547.

> for the Red Desert antelope herd unit. This range is not delineated as crucial because the animals are forced out of the area in severe winters. During onceal winters this range is of greater value to the herd than much of the delineated crucial winter range. Any developments in this area could also adversely impact essonal migrations.

- 31. Page 230: The concluding paragraph for the locatable minerals section fails to mention that mule deer in the Green Mountain Management Unit could also suffer long-ters impacts from development.
- Page 293: Fish and Wildlife Section of the Preferred Alternative fails to mention the possible reintroduction of bighorn sheep into the Sweetwater Rocks as listed in Table 2-2 on page 34.
- 33. Page 302: Map 5-8, Access. All comments on access map 3-33 on page 180 (referenced on page 142) apply here.
- 34. Fage 208: Forest Management second paragraph. The plan should be specific about what "efforts" would be applied to restrict public woof-cutting to the desired comparteents. It should also indicate what enforcement would be available to ensure other segments of the mountain were not significantly disturbed by "remagese" woodcuttees.
- 35. Page 310: The statement that tract 134 (in the Landownership Adjustments section) does not have legal access is incorrect. This tract is bisected by the Green Mountain Loop Boad (BLA 7411). If this tract is removed from public ownership, we recommend it be done only through trade for a similar tract with similar access.
- 36. Page 317: In the section on Landownership Adjustments, tracts 70 and 125 are both "to be retained" and "considered for sale or exchange." We assume this is a typographical error, as the map shows both are planned for retention in public ownership.
- 37, Page 323: On Map 5-17, land tracts 44, 59, 63, and 64 have potential for the present of the second seco
- 38, Page 337: Landownership Adjustments. Our maps show tracts 158 and 159 are accessed by the Turkey Track Road (Matrona County Road 322). Tract 167 should not be listed here, as it lies in the Beaver Creek Management

Mr. Warren White January 10, 1986 Page 14 - EIS 2547.

- Page 341: The section on access roads fails to mention the Beef Gap, Wolf Gap, and Beaver Rim Roads mentioned in the preferred alternative in Table 5-2, page 301.
- 40. Page 344: We would be quite concerned with any proposal to remove tracts 24, 25, 26, and 27 from public ownership. We feel that lands within this elk winter range must be used in a manner consistent with the management objectives of the unit.
- 41. Tage 350: Throughout the plan, the State of Wyoning is used synonymously with the Wyoning Game and Fish Department. These two terms Department is charged with the management of all vidility within the State of Wyoning. The State Land Board's major objective is to maximize revenues on State of Wyoning ownel lands. Both the Wyoning Game and Fish Department and the State of Myoning own lands, but there is a difference in their management purposes.
- 42. Page 357: Land Ownership Adjustments and Utility Systems: Should the first sentence be 13 tracts or 14 tracts? The following paragraph refers to 14 tracts
- Fage 375: The section on Harvest Restrictions belongs under heading III., Forest Management, on pages 376-377, not under I. Oil and Gas.
- 44. Page 390: Under Alternative C, the short reference "same as Alternative A" should probably be "Same as Alternative B," since A has no timber harvest.
- 45, Page 408: Item 1) under seasonal restrictions, the preferred alternative should probably state "big game crucial winter ranges" rather than mule deer and antologic crucial winter ranges, in the event one selk, mone, or bighorn sheep crucial winter ranges are defined in the future.
- 46. Page 409: As stated for page 33, the Existing Management alternative (A) should include the Sweetwater Rocks bighorn sheep reintroduction.
- 47. Page 431: The Wildlife Stipulations listed here fail to include protection of elk calving areas from Hay 1 to June 30 as specified in BLM Instruction Henoradus No. VY-85-750 dated March 26, 1985. "Polis" should follow "burrowing" in the latter part of this section on page 437.

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- 48. Map 4-1: Wildlife Habitat/Landownership Adjustments. Shows portions of Sections 17 and 18 in T42N, NION, as land available for exchange or sale, yet Map 5-37 shows these to be retained. We recommend these lands be retained.
- 49. Mag. 5-31. The two parcels of land between Jakey's Fark and Torrey Greek Identified as Treet 20 on May 5-31, page 30%, are litted for potential sale or exchange. These parcels of land are contiguous with the Dubols Fish Batchery lands and provide access to the state land above the hatchery. We would be interested in evaluating Department control of this land, should it become evaluable.

Grazing Supplement Draft RMP/EIS:

We agree with the BLM decision to neither analyse nor consider Alternatives D and E. Both are unrealistic and undesirable. It can be a former became and the left production of the second and the left production. The consistion of reduced livestock graving and some of the range improvements in the Proposed Action (Alternative A) would have been an alternative worth evaluating. An alternative like the proposed action, with stocking rates based on forgag ellocation data, should also have been considered.

It is difficult to choose between Alternative B - Existing Management and the proposed action. Without the proposed improvements in range and graning systems, we feel portions of the resource area will continue to decline in condition. In most cases, this will not be favorable to wildlife.

Not enough detail is given in this DEIS to evaluate site-specific impacts of the proposed range improvements. If planners are able to estimate that it mainteed or now range intens will be needed in allowant 159, we tions. Data in Table A-B indicate that BMF range plans are well-developed enough to provide site specific plans for must of the affected allowants. A support of the specific plans for the affected allowants. The specific plans for must of the affected allowants analyses of the specific plans for must be appropriately search of the specific plans for the spe

The proposal to increase livestock allocations in M - category allotements when "appropriate" is disturbing. We question how the BDM will determine if increases are appropriate. Mearly all range monitoring efforts are to be directed to 1 - category allotments, and we are concerned that more any other walking for the M - category allotments. Just as domnant adjustments in livescok use will require documentation and supporting date, so should any upweed adjustments.

Mr. Warren White January 10, 1986 Page 16 - EIS 2547.

If the Proposed Action is adopted, we suggest it be modified to accommodate present and future streamfally programs. The Sun streamfally program control of the Company of the Company of the Company of the Company planting lies in this EIS area, but is not sentioned in this document. The proposed project is in the Devil's Gate Alloteant (No. 2005), which is a N- category alloteant. This acreage of brush control should be added to Table A-B and to the total acreages entitlosed in the text to page 3 and 3).

Dubois Area

Recently the RLM has incorporated about 2,000 acres of land in the Red Creek and Little Red Creek area into the bhiskey Mountain Sighern Sheep care. Service, and U.S. Fish and Willief Service have not and vorbally agreed to work up a management plan to enhance highorn sheep in this area. We suggest Allocanted Figl. should be changed from Nezderpor to Lesterpor, which would allow assessment of possible livestock grazing practices in the area, to the benefit of both violaties and livestoch.

We feel that the Dubois Badlands Wilderness Study Area (WSA) under Allotement #2112 is important enough as wildlife habitat and to its original WSA designation, that it be changed from category C to I, since there is a large percentage of the area in fair and poor range condition.

General Comments

We support these efforts of a land sanagement again, such as the BLM, to improve from and habits of conditions on small beam when the BLM conditions on the second transport of the second transport o

Specific Comments on Grazing Supplement Draft RMP & EIS, in Order of Pagination of the Document:

Page 1: It appears to us that the description of the Study Area has an
error in it. From the southeast corner of the Wind River Indian
Reservation it is impossible to follow the Natrona County line.
Presumably this means north along the Reservation line to Washakie
County.

Mr. Warren White January 10, 1986 Page 17 - EIS 2547.

- Page 8: Regarding variances from BLM standard fences, we would appreciate the EIS stating that this Department will be consulted prior to issuance of any variances which may impact villdife values.
- 3. Pages 11 and 12: The section on actions for N category allotments implies that all of these allotments would receive increases in present as ye had all that is appropriate on some allotments, and other any not deserve increases at all. As with decreases, increase should not be granted unless there is decommentation and data supporting the decision.
- 4. Fage 19: The DEIS states "Wildlife also use the grass during the spring staton". This is too general and inaccurate. Some species of wildlife the state of the type is used by lag game, predominantly in the spring. However, wildlife and big game are not synonyous.
- 5. Page 38: In the paragraph on implementation of grazing systems and/or fencing, there is no mention of the serious negative impacts to some species of violidite (i.e. big game) with increased fencing of the public lawds. Even BLFTyps I and Type II fences, which represent compromises between the needs of big game and the need to control livestock, can
- Page 44: Alternative C: We support this alternative as described in the Grazing Supplement, and recommend that intensive livestock management using a rest rotation system be integrated into this alternative to provide increased protection to stream banks and riparian areas
- Page 46: Is the Recreation section, small treats of agricultural land our predicted to be sold for summer towards to in the Enhance Maternake and Wildlife Habitat Alternative. While this any the State of the as likely to occur in all the other alternatives as well, and will accelerate or decline with land prices and the financial health of the agricultural industry.
- Page 79: Table A-8, Proposed Range Improvements, does not include the 700 acre proposed crested wheatgrass planting on BLM lands in Allotment 0205, Devil's Gate (an M - category allotment).
- Page 86: We question why Albany County is included as part of the Lander Resource Area's economic region. Natrona County data would seem more applicable.
- 10. Page 89: Same comment as for page 86.

Hr. Warren White January 10, 1986 Page 18 - EIS 2547.

Wilderness Supplement Draft DOP/EIS:

The proposed boundaries for the partial wilderness option appear to us to be unmanageable, and we recommend they follow a block pattern using traditional quarter-section lines. The delineated boundaries would create an island of multiple use BM land in the northern portion of Section 2, TSBN,

Wildlife resources in and around the Swestwater Rocks WSAs are unlikely to be affected by either a wilderness designation or the lack of such a designation. Wilderness designation in all or any of these areas would provide long-term protection for the enclosed habitate, benefiting mainly mule deer and highorn sheep, provided a proposed sheep transplant occurs. Raptor nexting sites and small portions of crucial antelope wister range would also be protected. Considering the areas' long potential for oil and gas, only that any significant amount of habitat would be lost in the near future. Development of these resources could, however, occur in the distant future and wilderness designation would provide protection.

Wilderness designation would increase the difficulty in developing habitat improvements, particularly water developments for highors sheep. Such developments would will be feasible in viderness, but there would be greater cestrictions on design and construction. Wilderness would be greater cestrictions on design and construction. Wilderness would be particularly on the construction of the construction o

Specific Comments on the Wilderness Supplement Draft EMP/EIS in Order of Pagination of the Document:

- Page 7: Sweetwater Canyon WSA (WY 030-101): We support the Proposed Action - Partial Wilderness as this alternative offers protection to the canyon area, yet allows motorized access to the canyon rim, which will facilitate finhermen access to the river.
- Page 9: Fisheries, 2nd paragraph: We are pleased to see the use of motorized equipment, such as an electrical generator for shocking fish, could be allowed for specific projects. We reacommend this statement be retained in the Final Resource Management Plan/RIS.
- Page 11: Cultural Resources, 3rd paragraph: We recommend a new heading be inserted before this paragraph. This paragraph is the beginning of the brief summation of the management actions rather than part of the Cultural Resources segment.

3

Mr. Warren White January 10, 1986 Page 19 - EIS 2547.

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- 4. Page 15: This section on livestock grating states that Allotmonta 1622 and 1623 are in the Gas Hills KIS area. It is nor understanding these LIS, and therefore this statement may be in error. This section also fails to need to the Managard Springs allotment (fo. 1309) which abote the VSAs and is an I category allotment discussed in the Gas Hills EIS.
- 5. Page 43: Information presented on mule deer in the Sweetwater Rocks is out of date. These enimals are now managed as part of the Sweetwater hard unit, not the Beaver Wish hard unit. The population objective for the herd (areas 96 and 97) is 5,000 deer post-season, and the population is below that level as a result of losses in the 193-36 winter.
- 6. Page 44: The single sentence on pronghorn antelope does not sufficiently describe antelope use of these wilderness study areas. The study areas include pockets of breahland abalita off the rocks, such of which is crucial antelope winter range for the Sweetwater antelope herd.
 - 7. Fage 44. We cannot argue with the statement that "Mo hald cagle meets, constant, or perches are known to exist within the Mai," but wintering half sagiles have been observed along the Swetstater liver man Devil's Cate, less than five miles from one MSA. This species may use some of the MSAs.
 - 8. Page 57: "Chukar" is misspelled in the section on Small Game and Game

Resource Management Plan (RMP) Draft EIS

Proposed Actions

The greatest potential danger to widdlife in this BDP is the recommendation that seasonal stipulations (primarily wildlife stipulations) would not be applied to lesses in KDS and areas with high potential for oil and gas unless they are necessary to small as significant impact on smother stipulations monoceasary. We contend that these stipulations represent a viable compromise to allow oil and gas netraction and exploration without reviously endangering the wildlife resource. Any proposal to almonthm the policy of multiple use in these areas to promote a single resource would be of strious connects to this agent.

If this policy is adopted, 32 percent of the crucial winter range for the Green Mountain elk herd (5,000 acres of 15,551 acres) would be unprotected from oil and gas exploration and development. Similarly, 31 percent

Mr. Warren White January 10, 1986 Page 20 - EIS 2547.

of the identified calving behind for this with hers (1/100 cs/2/366 cs.) bounds receive measured proceeding. Within law markets large the searce area, 12 of 76 identified sage grosse laks, over 13 percent of the identified under crucial winter range (4,722 cs/34), 333 cs.) and 20 percent of the entelope crucial winter range (10/000 cs/551/148 ac.) would be denied the limited protection afforded by wasmount sipulations.

Since seasonal stipulations on these leases would be considered case by case, wildlife seasonal stipulations may occasionally be applied. In our tions were outlined sense of the consideration of the consideration for its consideration for wildlife concerns, even on a case by case basis, may not be adequate.

The proposal to use prescribed burns to improve wildlife habitat is a sound one, since this is a good tool for that purpose. Benefits of the burning projects will depend on the sites to be burned, the prescription, and the objectives for each burn.

We support the decision to continue cooperation on the proposed Sweetwater Rocks bighors sheep reintroduction. As stated earlier, we feel this proposed action more appropriately should have been included in Alternative A, Existing Management.

The decision to improve management by removing small isolated tracts from public ownership is resumable. From the tendpoint of maintaining public access and protecting wildlife habitats, we believe land trades should be the primary means of removing these tracts from public ownership Direct small of such tracts produces reduced management and public access are also important considerations.

We recommend that aquisition of public access be considered in the Whiskey Montain Management Unit to allow hunters into the Red Creek portion of the sheep wither range. This public access is needed to properly manage such access. The Red Creek area is an important highorn sheep winter range. Should improved liverstock grazing be instituted in this drainage, widdlife shabitat would be greatly benefited. We strongly urge better livestock management practices be explored for this area.

Due to the way they are packaged, it is difficult to recommend one alternative. The Frederical Alternative appears reasonable, except for what gas leases, not a few minor problems with some proposed changes in lam-downership. Alternative C is not desirable because it favors oil and gas because the favor oil and gas the second of the sec

sheep reintroduction into the Sweetvater Rocks. If this omission were corrected, we recommend salection of Alternative A over the preferred plan, the present of the second of development. We also recommend that the authors certain the alternatives presented in the three documents to avoid confusion or an unsuferstanding.

Please forward these comments to the appropriate Federal agencies and contact this office if we may be of further help.

Sincerely. FOR ASSISTANT DIRECTOR

FP:HBM:ssc cc: Game Div. Fish Div. HATS Div.

Ms. Peggy Petersen-3519 Fartilities Lang-Caryon, M. 43-34



THE GEOLOGICAL SURVEY OF WYOMING UNIVERSITY OF WYOMING BOX 3008, UNIVERSITY STATION LARAMIE, WYOMING 82071

10

MENORANDUM

DEC 0 2 1925

To: State Planning Coordinator
From: Gary B. Glass, State Geologist; and Staff
Geologists, W.D. Husuel, Ray Harris, Dick
Jones, Rod DeBruin, Alan VerPleeg, Jim Case
Subject: Draft Lander Resource Management Plan
and Wilderness Supplement
Date: November 26, 1985

We have reviewed the Draft Lander Resource Management Plan (RMP) and Wilderness Supplement and submit the following comments:

RESOURCE MANAGEMENT PLAN (DRAFT)

Page 18, 2nd paragraph - The Lander Resource Area is in a designated coal production region. The Energy Information Administration (ELA) designates all sines in the State of Myosing as being in coal-producing District 19 [see ELA's "1985 Coal Production" Report, DOE/ELA Ol18(83), published October, 1984]. Perhaps the Draft MDP is referring to the fact that the Lander Resource Area is not in a grown Recoverable Coal Resource Area (ECACA).

Although mo interest was expressed in leasing Federal coal during the last call for leasing interest, it does not necessarily follow that this will always be the case.

- Chapter III, Affected Environment, p.57-75 It seems obvious that very IIItle effort went into this write-up. The geologic discussion is vague and rather poorly written. More specifically, we have tried to summarize some of the errors, omissions, etc., on a page by page
- Page 57: Absarbs Mountains is mispelled. Geologic "formations" are incorrectly referred to a geologic "Goundations". The geologic setting of Copper Mountain, the Granite Mountains, and South Pass are omitted, yet these areas are extremely important to the overal! in Africa, Canada, Australia, and South America are enriched in mineral resources.

Responses to Letter 10

- We agree with your reasoning, and the information on the Hemlo discovery is appreciated. The sentence, "Since this gold was not recovered when it was worth over \$700 per ounce, it probably will not be mined at its present value of about \$300 per ounce." has been taken out.
- 2. We agree with your statement; the appropriate section has been revised accordingly.
- We agree, and the sentence has been changed to, "Commercially valuable mineral deposits are not known to occur in the WSA."
- Although USDI, GS (1970) (formerly Love, 1970) was not referenced as often as Tetra Tech (1983) throughout the "Geology and Mineralization" sections of the draft wilderness supplement, this in no way implies we relied on one more than the other.
- 5. We agree, and the favorability for jade occurrence has been changed from "low to moderate" to "moderate to high."
- 6 This has been noted in the mineralization section for each of the Sweetwater Rocks WSAs.
- The final FIS has been revised to reflect this.

State Planning Coordinator

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- Page 60, 4th paragraph, second column The third sentence is repeated word for word in the 5th paragraph.
- Page 60 We commented on the "oil and gas potential rating system" in January of 1985. Because we feel these earlier comments are still appropriate, we have attached a copy of these previous comments.
- Page 62, Coal section There has been some interest in coal deposits at Alkall Butte and Muddy Creek. In addition, the Bureau of Land Management has done some coal exploration drilling in the Alkali Butte area in recent years.

Although much of the Wind River Basin has little potential for coal mining, there are some areas that are attractive for smaller mines to serve local industrial, commercial, or domestic markets. On the longer-term, in situ gasification of deeper coal beds, especially only the coal recovery sethods.

This section should refer to Map 3-3 on page 66, but it doesn't.

- Page 62, Phosphate section "Covant Creek" should be "Conant Creek".
- $\frac{Page~66,~Map~3-3}{between~phosphate~areas~and~geothermal~areas~is~not~readily~made.}$

What are the bases for classifying and delineating the areas of coal and phosphate resources as shown on this map? Are they based on geologic formation, depth, thickness, quality, etc.? For example, nearly the entire Wind River Basin is underlain by coal resources.

- Page 67, Table 3-3 The projections in this table may be too optimistic since they are arrived at by averaging a growth rate using the trends of 1950-1984. Falling prices and current economic trends have already caused exploration to drop off, especially in the case of natural gas.
- Page 67, section on Phosphate Phosphorous "peritoxide" should be phosphorous "pentoxide". The reference to "Coffuran (1967)" should be "Coffana and Service (1967)".
- <u>Page 68</u>, section on <u>Phosphate</u>, <u>left column</u> This section refers to increasing severance taxes although we know of no actions in this regard.
- Page 68, Uranium section There is currently only one uranium mill operating in the Resource Area. "Topee Trail" should be "Tepee Trails" Formation. The report does no mention the uranium occurrences at the Flathead/Precambrian unconformity. The Wasatch and Green River Formations are separate formations.

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Page 68, Gold section - This section left out discussions on gold resources along the Mind River, Little Mind River, and Popo Agie River. Gold was mind from placer deposits along the Mind River near Riverton at the turn of the century. This section should also include a description of the Clarks Fork placer near Dubols.

Although located just outside of the Lander Resource Area, the auriferous boulder oregineerste at Oregon Buttes should be included in the discussion of South Pass. According to Love and others (1978), the poid in the arksoic grit of this congineerate Massach, conglomerate is reported to have a significant gold resource by Love and others.

In the second paragraph, it is stated that all of the mines at South Pass were operated by inexperienced miners, prospectors, and by crooks. This may have been the case for some of the mining were considered by experienced miners that the labor Grand were operated by experienced mining the content of Colorado. South Pass had its what of inexperienced mining crooks, but probably no more than any other historic district in the western U.S.

In this same paragraph, gold production estimates should be included.

The third paragraph should include a discussion of the Tin Cup was Bridger (Copper Mountain) Districts. In particular, the variety and mineral resources, mineral potential, and historic production at Copper Mountain has been ignored. The Debas whise in the Copper Mountain has been ignored. The Debas while in the Copper Mountain has been ignored. The Debas while in the Copper would be the Copper and the Coppe

Cold mineralization in South Pass could be discussed in greater detail in the fourth paragraph. The gold at South Pass occurs in all major mappable units, but is in particular, concentrated in shear zones in metagroymacke of the Miners Delight Formation. Gold is found less often in "true" quart veins, and may potentially is found less often in "true" quart veins, and may potentially continued to the property of the property of

This section should include a discussion on exploration by major anining companies for gold during the past 5 to 10 years. From reading this document, the review that the metal resources are very small, and only a few "inexperienced" prospectors have a potential interest for metals in the Lander Resource Area, which is not the case.

- Precambrian rocks have been added to the "Geology" section of chapter 3 for Copper Mountain, Corrections in capitalization and spelling have been made.
- This information has been incorporated into the final EIS.
- 10. During the interim management period for WSAs, no restrictions would apply to academic studies of the geology provided such studies would not impair wilderness suitability. Drilling of exploratory holes for academic studies would not be allowed, for example. Drilling would be permissible on claim properties meeting "grand-fathered" uses and/or valid existing rights. Pre-FLPMA oil and gas leases could be explored by drilling.
- 11. The "Geologic Time Scale" in the appendix has been changed.

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- Page 69, Map 3-4 This map does not show all the mineral localities
- Page 70, Zeolite section The Wagon Red (Eocene) Formation ashes are not from the Yellowstone Yolcanics (Quaternary). They are from that region, but the writer apparently did not understand the distinction.

There are more theories, including more recent ones, for the formation of realities than the Van Houten (1964) reference. J.D. Love's Professional Paper 485-C on the Granice Mountains contains an example, and this report isn't even referenced in the MMP.

"Van Houten" (1964) is misspelled in the 1st paragraph.

There is also no reference to the existing zeolite production from Arizona, which attests to the fact that zeolites are not in the "infant stege" of development.

In the next to the last paragraph "Hansel" (1978) should be "Hausel" (1978)

Page 70. Other Minerals section - Although the value of gravel, crushed stone, etc. may be small on a pickneal besis, the cumulative value is significant. There is a flagstene quarry just south of Dublas,

Tungsten, which is an important strategic mineral, should be discussed more fully in this section. Significant tungsten anomalies occur at Copper Mountain, leviston, and South Pass. Copper-silverinc red bed deposits along the flank of the Mind Bluer Range should also be included in this discussion.

Page 70, Physiography section - The term "Sheshome Mountains" is no longer used for the area between the Ovi Creek Mountains and the Absarches. Sheshoks Rampi is now used (see Love and Christinssen, 1935 - Genlogic Map of Symbol, where 2). Similarly, the Bridger Mountains are considered to the part of the Creek Mountains. The Green Mountains and Sweetwater Arch are generally considered to be part of the Creek Mountains uplift. A more modern discription of the physiography is given in Thombory. No., 1965, Beginnal Communicity of the United States: John Wiley & Sons, Rec., 177, Chapter 15.

The term "Myoming Semin" generally refers to all the besins and uplifts between the Scathern and Middle Rocky Mountains, not just the features described in this RM?

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Thornbury spalls "Shoshon!" Basin, "Shoshone" Basin, and describes it as the eastern part of the Wind River Basin. Also, there is no mention of the structurally important Casper arch on the east margin of the Shoshone Basin. On line 3 of the last paragraph (right column), "Mountains" should be capitalized sfere wind River.

- Page 71 Map 3-5 Ninimally, "Myoming Easin" should be deleted from this map.
- Fags 10 and following pages This section or the previous section of the BMP should include some mention of geological heards. There are manerous hrows on suspected active faults in the washers and toric setupic exturity in the area. Refer to U.S. Geological Survey open-file Report 32-79 thorm and Superced Active Faults in Wyoning. Declopical Survey of Wyoning Open File Report 34-13 Trailiancy and of Earthquake Epicenters in Wyoning and U.S. Geological Survey of Wyoning the Wood of the Survey of U.S. Geological Survey of University to Wyoning and U.S. Geological Survey (Survey of Wyoning to Wyoning and U.S. Geological Survey Open-file Report 67-103) on maximum borizontal secularation appeted in the tree.

There are numerous landslides and landslide-prone areas, shrinking and swelling clays, compactible soils, and selentum-rich areas that were not mentioned as occurring in the Resource Area. In the latter case, refer to Goological Survey of Myoming's Open File Report 85-14

Page 72, Ind paragraph, left column - it is not clear what is meant by "The area is not typical because the foothills occur in the basin, ewy from the mountain front". Note "foothills" adjacent to Myoming minimizing are in the adjacent basins.

The description of relief in the rest of the peragraph is confusingmost readers will not understand may of this, especially the last part about most of the walley being carried away.

- Fage 22, 3rd and 4th paragraphs, left column The rocks in the absarches are better described as "Polcanically-derived squametry rock" or "volcanicalistic rocks" that "always of sages". The Shechons Router is not simply made up of the Higgirs Formation. Each of the sages (Debene Routeries and Higgirs Formation) and the sages (Debene Routeries and Missozia rocks). The Higgirs Formation is part of the volcanic pile that once completely build the Meshake
- Page 71, 5th and 6th paragraphs "Mounteins" should be capitalized in the first line, the Dinwoody and Phosphorus Formations are Feleotic rocks, not Mesocioc rocks; and, there is a fair senout of Paleotic is sell as Mesoci

- Page 22, 7th paragraph. The Battlessake Hills (Mountains of the BMP) are batter described as Precambrian-correl anticline with uplifted Palecooks and Mesozok rocks on its Clank. These rocks have been intruded by volcanic rocks, including laccoliths, silts, plugs, volcanic dikes, etc. In fact, only a small portion of the Rattlessake Hills is composed of volcanic rocks.
- <u>Page 72, 8th paragraph</u> The White River Formation that occurs on the morthern foothills of the Green Mountains has never been subdivided in that ares. The Crook Mountains, which lie between the Green Mountains to the east and the southeastern Wind River Range to the west, are not mentioned or shown on Map 3-5.
- Page 72, 9th paragraph The current idea on the origin of the Granite Mountains (see love, Jo., 1970, U.S. Goolgical Survey Professional Paper 495-C) is that the Precedent core of the range was baried by the range subsided in probably Pliconen ties. The granite Mountains was subsided in probably Pliconen ties. The granitic Kimbb were exposed by regional epsirogenic upilit that affected not just this area, but the entire Booky Mountain region. The Granite Mountains preserve a depositional remnant of previously more extensive deposits.
- Page 15: South hase Mining Area The first paragraph mentions that "South Pass yielded will over a million dollars in gold during its history". This does not give any real indication of value was this 1880 prices, 1978 prices, or present prices? A better statement would be "At today's prices (3325 per ounce). South Pass may have yielded as much as 100,000,000 in pold".

The discussion of recurrent gold activities in the 2nd paragraph left out the discovery of the Lewiston District in 1879.

- Page 158, 4th paragraph A large amount of the interest in gold at South
 Pass has been by major mining companies in addition to prospectors.
- Page 158, 5th paragraph This paragraph should include a discussion of the Wyoming Department of Environmental Quality's proposed plans to reclaim some of the abandoned mines in this area. This reclamation will have an effect on the historic sites.
- Page 166, Riverton section The report calls U.S. Highway 26, Wyoming State Highway 26.
- $\frac{Page~168,~0i1~and~Gas~section,~last~sentence}{"early~production~potential"?}~-~\text{What~is~meant~by~the~terms}$

Overall the report could use a discussion of the types of oil and gas traps found to date, and the types of traps which will be explored

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for in the future, i.e., future exploration will be for deep stratigraphic and structural/stratigraphic traps. Also, there is no mention of the major oil and gas-producing formations in the area.

- Page 168, Uranium section The current uranium production from the Resource Area is all contracted to Japanese utilities, not domestic buyers. Additional production will depend on new contracts being signed.
- Page 172, Phosphate section Regional phosphate production will increase more than stated due to the addition of Chevron's fertilizer plant in the Rock Springs area.
- Page 172, Bentonite section This discussion of bentonite is not ade quately related to the Resource Area.
- Page 174, Zeolite section Employment and "income" levels for reolite mining should be available from the Arizona Geological Survey, for comparison.
- $\frac{\text{Page 181}}{\text{coal}}$ The RMP should discuss how they plan to handle requests for coal exploration and development, should they occur.
- Section on Environmental Consequences, beginning on page 187 This section seems to have emphasized the negative consequences of mineral exploration and maining and has not pointed out any possibly positive consequences or the temporary nature of mining activities.

Earlier on page 195, the RMP stated that the effects that the mining industry has had on the fish and wildlife populations is "not well documented". If the effects are not well documented, how can the effects be so negative?

- Page 236, Locatable Minerals Adverse Impacts This section goes into great derial Boot the adverse impacts of mineral sopioration and mining, but does not discuss the adverse impacts that BMFs limitations on mining and exploration activities might have on mineral activities and potential mineral development in this part of the State.
- Page 237, Management Actions for Cultural/Natural History This section should discuss the Wyoning Department of Environmental Quality's plans for abandoned mined land reclamation in the South Pass, Lewiston, Copper Mountain, and Tin Cup Districts.

- Page 178, Forestry Impact Number 1 This statement is not true for the South Pass gold mining area. The principal gold deposits do not occur in timbered area.
- rgg JBD. Lectable Missrals, its paragraph. This section could use a discussion what the 'line of paration' missives or data are lawolve. For instance, what is required in the 'plan' it deploration is not allowed without use "plan" if application is not allowed without use "plan" if application is not allowed without the 'plan' of approximation, this could greatly affect the potential for discovering any gold
- Page 202, Mmp 5-2 like most maps in this RMP, this map does not have any township and range grid to help a reviewer or user locate
- Fage 320, iccrtable Minerals section Potential mining in the Lander Slope area is probably limited to limestone aggregate, which has a low possibility for development. There are parts of the area, however, that could be mined without affecting the aesthetics of the Lander Slope area.
- Page 321, Phosphate section This section is referring to "resources" not "reserves" of phosphate.
- Page 529, Locatable Minerals section Requiring "plans of operations" in the South Pass District could have a severa impact on mining and apploration in this area, depending on the requirements.
- Fage 341 "No surface occupancy" restrictions for locatable minerals will essentially close this area to non-oil and gas aineral development. Although it is unclear if this restriction only refers to oil and gas, it would seem like the BLM would have to impose the same restrictions on all mineral activity.
- Pegs 357, Locatable Minerals This section should include a discussion of the Clarks fork gold placers.
- Page 441, Glossery "Gneiss" is misspelled.
- Page 442, Mesozolic What is the citation for the timespan used for the
- Page 443, Textiary What is the citation for the timespan used for the
- Page 445, Reference: Although the University of Byoning's Institute for Folicy Research (IFR) was cited for some material in the text (pages 172-174), their publication is mot cited in the "References". Also, the material cited as IFR was prepared for IFR by our agency.

State Planning Coordinator

November 26, 1965 Page 9

Page 445, Hausel and Holden citation - "uplifts" is misspelled. Also, it should be "Hausel, W.D.", not "Hausel, D.W.".

WILDERNESS SUPPLEMENT (DRAFT)

- Fago 31, 1st paragraph, left colume, last sentence before a deposit can be limited, it has no be discoursed. Only efter a gold deposit is discoursed and its reserves derilled out, does the gold price come into play. There are several gold spass presently being developed around the world (as 3352 as nounce) that were not inside at \$700 as nounce, simply because they were not discovered early enough to take advantage of the 1700 per ounce price. In fact, the percentage of gold properties of the service of the 1700 and the 1700 and 1700 and
- One of the more significant gold discoveries this century was made in an area that had been prospected more than 100 years, yet the first gold wasn't produced until gold fell to 1200 an maxe. This is the Hembo discovery in Ontario that ties adjacent to the Trans-Canada Highway (Engineering and Mining Journal, Sept. 1895).
- 2 Page 31, 7nd paragraph, left column Although Tetra Tech's sassissent of uranium at the Cambrian-Precession contact is low, the anomaly is important and may guids some future exploration.
- 3 Page 51, left column, last paragraph, last sentence . This last sentence la an unsupported statement.
 - Page 31, 39, etc. The reliance on MURE studies (the Tetra Tach reference)
 For geology and sineralization petential is questionable. More reliance should be given to Love (1970), although portions of the 890's
 test suggest that the authors may not have understood it.
- Page 42, 4th paragraph, right column Since there was jade mined in the the Sewelmater Bocks area in recent years, we fail to see how there could only be a low to modernet favorability for its occurrence. We would call the occurrence of jade, a certainty.
- 6 in this area.
- 7 | Page 42, persgraph 7 We have shown occurrences of gold, silver, and other minerals in or near this MSA (ase Gological Survey of Wyoming Map Series MS-14, 1985).
- Page 48, Geology and Mineralization. This discussion does not mention the Procambles rocks exposed in this MSA. There are also much better references to the geology of this area than Tetra Tech (1883), which is a Multi study.

State Planning Coordinator

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10

11

November 26, 1985 Page 10

There are also numerous errors in capitalization in this discussion, and the Tansleop Sandstone is misspelled.

here, Micrelization section - Precombrian rocks in the same of the About variety of Mighard resources, including long, copper, and silver, tungasen, faldegar, ientiams berpl, rare earth of section of a fithium commission of the same o

Fire %, and 23 - If taken literally, these discussions of the BLM's rules for wilderness exploration disallow any "geologic studies" except for observations conducted sferr filing an approved plan. Does this re-vision include accessed studies of the geology, or does the BLM just mean drilling, story.

Page 118 and 17, Appendix III - Although the fille of this Appendix is consign the and Parmatisms, there was no formation filled. The there is no server that the server is not a fill and the server is not taken to where the listed days case from a regard to this latter comment, the age emissives do not agree with those adopted in 1813 by the Geologic Name omnittee of the U.S. Geological Survey.

11



TOWN OF DUBOIS

DUBDIE, WYOMING



Jack Kelly, Arem Manager Bursau of Land Management Lander Resource Area P.O. Box 589 Lander, Nyoming 82520

Dear Mr. Kelly,

Char Mr. Eelly.

On February 12, 1986 the Dubois Town Council instructed me to comment on the Lander Resource Management Plan D.E.1.S. feel could seriously affect Dubois and its surrounding area. First, the ne surface occupancy for oil and gas leasing in two areas. Whiskey Mountain sheep winter range and the East fork elk population not altogether adequate. Please do not construe this to man Dubois is against Oil and Cas Leasing, quite the contrary. See the construction of the contrary of the construction of the contrary of the contrary

Sincerely, Danny F. Grubb Mayor, Town of Dubois Dubois, Myoming

Response to Letter 11

Thank you for your comments.

City of Riverton

Box 1700 RIUFRTON WYOMING 82501

February 12, 1986

Mr. Jack Kelly, Manager Abc Dept. Lander Resource Area Bureau of Land Management Lander, Wy. 82520

Re: Lander Resource Area Resource Management Plan

Dear Mr. Kelly:

Our local government has reviewed the above documents and feel it is critically important to the economic future of our county for us to respond. The full utilization of available to provide long term stability to our extractive and support industries and our agricultural markets, and the support of the s

We deeply believe in the multiple use concept. The effort to "protect" further lands and "enhance long term in not a cumulatively positive result. It is firely assures the predominance of our population will be unable to access, enjoy or benefit from employment on these lands.

We urge the permanent designation of Sweetwater Canyon, Sweetwater Rocks and Copper Mountain as <u>MULTIPLE USE</u> areas available for recreation, mineral extraction, grazing and the economically beneficial activities to which the lands may be best utilized. We further recommend a re-evaluation of the entire disturbing trend towards over valuing the concept of wilderness.

Sincerely.

ins/ul

13

Lander Area Chamber of Commerce

160 North First Street

Lander, Wyoming 82520

307-332-3892

14 February 1986

Jack Kelly, Manager Lander Resource Area Bureau of Land Hanagem Lander, Wyoming 02520

The Lander Chamber of Commerce would like to go on record as being against the proposed wilderness or limited use areas within the state of Myosing. We refer to the following areas that are now being considered.

- 1. Sweetwater Canyon
- 2. Sweetwater Rocks Area
- 3. Copper Mountain
- 4. Whiskey Mountain
- 5. The Dubois Baclands

In efforts to prosote tourism, snowmobile trails, hunting and other outdoor recreation to boost the local economy. we feel that these are important areas that could squelch our attempts in the promotions we are involved in.

Please feel free to contact me if you have any questions.

Kind Regards

LANDER CHAMBER OF COMMERCE

Sinda Linda Van Fleet Nanager

Apple Festival Wyoming State Winter Fair One Shot Antelope Hunt

Response to Letter 12

Thank you for your comments.

Response to Letter 13

Thank you for your comments.



THE WILDERNESS SOCIETY

February 13, 1986

Jack Kelly, Lander Remource Area Manager PO Box 589 Lander, Wyoming 82520

Re: Lander RMP/DEIS

Dear Mr. Kelly

Dear Mr. Reily,

The Wilderness Society is a national organization
dedicated to the preservation and wise management of public
lands. We support wilderness designation for the Sweetwater
Camyon as you have recommended, but believe that the
lands are support wilderness designation of 1,056 for that
Mish. We cannot agree that the outstanding resources found
in the Sweetwater Rocks Complex will be protected without
screen be added to the National Wilderness Preservation
Systems Likewise. Copper Mountain MSA contains crucial
wildlife habitat, outstanding scenary and recreation
systems Likewise. Copper Mountain MSA contains crucial
wildlife habitat, outstanding scenary and recreation
designated wilderness. Although designated wilderness is
within close proximaty to these areas Daing discussed, those
within close proximaty to these areas Daing discussed, those
times. They cannot "substitute" for proceedy or opportuntions. They cannot "substitute" for proceedy or opportunlands. Putting these MSAs into the Mational Wilderness
Premervation System is an important investment to the
expressed objections are not serious.

The DEIS states that among the environmental resources The DEIS states that among the environmental resources not affected by the plan are vageation, visual resources and water resources. This supply cannot be true. Surely and ever resources. This supply cannot be true. Surely environmental true and the supply cannot be true. Surely environmental true and the supplemental true are sufficient to the perception of the part of BHA that has resulted in essentially an analysis being presented in the documents on the affects of analysis being presented in the documents on the affects of canyon portion of Sweetvater Canyon. Now the wilderness values of these lends will be affected is a very important attributed to the supplemental true products of the supplemental true products and the supplemental true products are true to the supplemental true products and the supplemental true products and the supplemental true products are true to the supplemental true products and the supplemental true products are true to the supplemental true products and true true true true true.

part of the data base that must be reviewed in order to make an informed decision about these resources. This proposed plan cannot be considered complete until these issues are addressed for all of the areas and for all possible activities under multiple use management.

The vildermass recommendation is sorely small compared to the resources that deserved protection. As pointed out in the DEIS, the socieoconomic base of the area depende upon tourism as much as any other aspect of the local economy income trefer to Table ?-Bithan any other industry. Those vary resources that would be jeopardited by inadequate management are the lifeblood of Framon County. The DEIS states in numerous places that the livestock industry would make the production is low. Oil 4 caps production potential is low in all areas except one where the geologic formations indicate a moderate possibility of commercial production desirability of variences designation.

Sweetweter Canvon WSA

Sweetwater Canyon MSA

Clearly the canyon itself supports many outstanding resources including a regionally important trout fishery. The canyon columns are regionally important trout fishery. The canyon children was a support of the canyon children and canyon for the canyon children and canyon control to the canyon children and optimum condition or the premature and canyon control to the canyon canyon control to the canyon ca

Responses to Letter 14

Visual resources are an integral part of the wilderness value of naturalness. If naturalness is unaffected, then the visual resource would be unaffected. Thus, in designated wilderness. there would be no noticeable human-caused intrusions into the natural landscape. Given the low likelihood of intrusions into the WSAs, the differences between visual resources in designated areas or in nondesignated areas would be nealigible.

Concerning water quality, the only management action likely to occur that has the potential to affect water quality negatively is the development of the placer mining claims in Sweetwater Canyon WSA. However, the potential for development to occur on these claims is low.

The primary cause of impacts on vegetation is livestock grazing, and as noted in the EIS, livestock grazing will not change in any of the WSAs, regardless of the alternative selected.

- The Proposed Action now encompasses the portions of those streams within the WSA.
- We currently have no ecological range condition inventory for the Sweetwater Canyon WSA, Vegetative conditions were not a factor in determining the WSA designation. The canyon is contained within two category "I" allotments.
- As noted in this document, the potential for the occurrence of surface-disturbing activities occurring is low. Please note that the Oregon/ Mormon Pioneer National Historic Trails are not within any of the WSAs. See Chapter 1, for more information
- The Final EIS has been revised to better reflect. the impacts that designation of the Sweetwater Rocks WSAs as wilderness would have on adjacent landowners. Please see appropriate sections of Chapters 1, 2, and 4, Trespass onto private lands was a major consideration because the WSAs are nearly surrounded by private land, and the best access to the WSAs is across private land. We now estimate that nonmotorized forms of recreation would increase by an estimated 5% after wilderness designation in the Sweetwater Rocks WSAs. Although the increase would be slight, it would in our opinion. cause a significant increase in trespass problems for the adjacent landowners and increase intrusions into their lifestyles.

to be protected for the longterm health of the regional economy, bininginal diversity the fishery and the habitats and water resource supported by the fiparian resource. With wilderness protection greater assurance enautes that damage, especially from escalating livestock grating and surface disturbing activation will not occur.

Gamage, especially from escalating livestock grains and surface disturbing activities will not occur.

In the plan no description was given of the ecological and range conditions and tendes of the Sucervater Canyon MSA between the conditions and tendes of the Sucervater Canyon MSA between the conditions and the surface of the surface

Sweetwater Rocks WSAs

The four USAs within this management unit new signifi-cent recreationed alterior values of the expenses of exposed grants, not found elsewhere in early expenses of form an impressive scenar penorama for this historic area. Rock climbing opportunities are comsidered world class, especially on Lankin Down. Split Rock, Moonstone and the aspecially on Lankin Down. Split Rock, Moonstone and the interest in the historic cralls has been increasing. None of the acceysters found in the WSAs is presently represented in the National Milderness Preservation System. No significant resource conflicts exist within the WSAs

although there are problems associated with access to the WSAs over private lands owned by area ranchers.

although there are problems associated with access to the what over private leads owned by area renchers.

The conflicts that do occur stem from cattle graing operators who fare curtailhants in their operations and the trespass. The cattle operations themselves would remain basically intent with one reductions in ANDM and since most cattle herding and dense repair in now done by horsabeca, operations ather. Infact, only a small portion of the graing allocements in the area are within the boundaries of the Wash both in terms of acrange and forage. In recard of the what hoth in terms of acrange and forage in recard of the what hoth in terms of acrange and forage in recard of the what hoth in terms of acrange and forage in recard of the what hoth in terms of acrange and forage in recard of the what hoth in terms of acrange and forage in recard of the what hoth in the same area from a fear of increased usage to the private sector, our foragoing wilderness protection infact, solve the problems of scenes is a fail.

The of the Wash are historic and present bighorn habitst although no population exists now. A sheep populations of the property of the process of the

The DEIs addresses the private sector's capitalized values of AUM's in numerous places with varying degrees of disclassers. This repeated consideration gives this disclassers. This repeated consideration gives this of the comment o The DEIS addresses the private sector's capitalize

we support widerness designation for these four MSAs it would be unjunifiable not a protect the important Swestwater Bocks' lendmarks and historical sites. The cultural and vilidite resources, especially those habitate solutions and vilidite factorical sites. The bedisplaced by surface disturbing activities, and the cultural state of the diversity (could in these VSAs would not no added to the

- 6. Bald eagles are reported to frequent the Sweetwater Rocks. Prairie dog colonies occur, making black-footed ferret occurrence a possibility, and peregrine falcon habitat appears good, but none have been observed. The Sweetwater Canyon is in the range of these three species, but observations of them have not been documented. We would not consider the potential for these species as "high" in these areas, with the possible exception of wintering bald eagles. We agree that designation would complement habitat protection, but it could inhibit habitat enhancement by preventing projects for improvement of vegetation or water.
- 7. The Sweetwater Rocks WSA complex is noted in the Lander RMP/EIS as an "avoidance area" for utility corridors. The likelihood of such development is extremely low; therefore, the discussion was deleted from the final EIS.

NVPS. As sentioned earlier, the recreations opportunities as a constraint of the senting of the

The possible construction of powerlines was mentioned in the "Environmental Consequences, Sweetwater Rocks" of the Consequences, Sweetwater Rocks of the Consequence of the Consequence

In conclusion, The Wilderness Society supports wilderness designation of the Sweetwater Canyon WSA (WY-00-0-01) (3.05 acres; Lankin Doma MSA (WY-00-0-13)) (5.95 acres; Split (WY-00-0-12)) (7.04 acres; Miller Springs WSA (WY-00-0-12)) (8.25 acres for a total or 45,05 acres. This total represents acres for a total or 45,05 acres. This total represents Area. We take this position because of the natural resource values found in these WSAs including but not limited to important wildlife habites, world class recreational resources, and the unique contributions they would make the National Wilderness Presentation Systems. No significance conflicts extend that would be adversely affected by this means that the world be adversely affected by this

Thank you for this opportunity to comment

Sincerely,

+ X +

Wind River Multiple Use Advocates

February 10, 1986

Mr. Jack Kelly Lander Rezourca Area Manager P.O. Box 589 Lander, Wyoming 82520

Done Sir:

We, the 100+ members of the W.R.K.U.A. wish to comment upon your Lander Wilderness Supplement, Draft Resource Management Plan /EIS, and upon the associated Resources Management plan. Thank you for the chance to respond to your plan.

The Copper Mountain (MY 031-111) plan We agree with the No Action proposal and the continued present management plan, if that plan means suitiple use for the

There is moderate interest in the mineralized area included in the mostern bounty of this study area. This interest may well increases with changing econosics, changing costs, and better acupeent. This probable increase in technology will make the oll and gas potential, present in the southern part of the Copper Mountain area a useful sconnect cosmodity.

All grazing rights and their related riperian rights with access to water for livestock should be continued.

Since no documented sightings of endangered spacies have been

Since no documented sightings of endangered spacies have been made in the Copper Mountain area, we suggest that it is highly probable that these spacies do not consider its use for more than

aignation for this area, in the forecashie fature. You state as under the Vilderness suppliesent indicates "the area would be managed appetitelly for wilderness values." We support the conclusion and request that your without the area from any orther Vilderness classification. ieee page 20.)

Responses to Letter 15

- The mining claims on lands open to mineral location within the Sweetwater Canyon WSA after October 21, 1976, are valid to the extent that they were located properly and recorded as required by law. Whether each claim has a discovery of a valuable mineral or not could only be determined under a stringent validity examination and other legal proceedings. The BLM's Wilderness Management Policy describes how unpatented mining claims and operations are to be managed in WSAs. The BLM has always had the authority to conduct validity examinations on mining claims. The wilderness management guidelines better explain when examinations can be conducted.
- 2. The BLM does not regulate water rights. Wilderness designation would not result in any change in grazing in this WSA. Upward or downward adjustments in numbers of livestock would be determined by monitoring of vegetation conditions and would be based on sound range management principles. Fencing would be used only if other management methods were not achieving the desired results.

15

Susstanter Canyon
This area is grise mining country, particularly for placer
and the standard of the Atlantic City and South Pass city
area grist tangets areas (schedite lamp be present. Cit)
and Cas lessing has a considerable interest in the continental
fault and the throut faults in the area. Drilling say well extend into the Sweetwater Canyon area.

We hold that the mining claims staked after October 21, 1976 were legally done. They should be recognized as legal since they were a fact prior to wilderness designation.

The B.L.M, request for still enother exemining authority for ming claims. It duplicates other regulatory authority and adds to the burden imposed upon the industry.

- This area is good awarer range for sheap and cattle. Water and grazing are vital to these industries. Riperian meedows form the best of the grazing in this area. No termination of water or ciparian rights should be considered. No fencing off of these areas should ever be considered.
- The recreational value of the area is high. This was required access. We object to the proposed closing of the Straberry creek road and the Overlock road. 3

The Sweatwater Rocks WY 010-120, 122,128 and 122b.
The prifer use for this area is for livestock grazing. Some springs in the area; those in Sec. 22, T. 30M, R. 90W, and in Sec. 32, T. 30M, E. 90W are the main source of water in the area.

20, T. 30M, E. 90W are the main source of water in the area.

20, T. 2

The recreational potential for these areas is high, inspite of poor public knowledge of the area. Access to the roads, trails and aprings of the area could well be improved to permit greater use by tourists and campen, and as a base for clabers.

I have personally worked in this eree for 30 years, from the Gas Hills area. I have never seen flig Norn sheep or ferrets in the area. If these species are not preent in what is classed as "good habitet", then maybe we don't understand what habitat these anisals prefer.

The Sweetwater Rocks area is not probably high potential for anion sining at this time. It is still possible that uranius and thorium may be found here. In addition to the ainerais and industrial rocks mentioned in your survey. These areas and the right to benefit from their claims.

The Whiskey Peak and Dubota Sedland:

| Vilderness consideration. The areas do not appear in the 'Lander Vilderness Supplement, Draff Management Plan/ElS.' Perhaps these areas should not be considered at this ties; until the BLM cosplete adequate notification to the public.

We the people of the W.R.M.U.A. jo tiple Use, based in Dubcia, Wyowing, status for these areas, join the Citizens for Mul-

- The W.R.M.U.A. opposes any more Wilderness in the State of Wyoming.
- 3. Water rights are the exclusive control of the State of
- The Duboia Badlands and the Whiskey Peak W.S.A. should not become wilderness. The BLM has not given sufficient notics to the public to consider these area for Wilderness designation.
- Never has so such land been given over to the use of so few, by so many (the people of Wyoning)
- in the consideration of Wilderness from WSA, studies, the people of Myosing should be the sole decision makers. T decision making process.
- The Split Rock area of historical significance, might be batter served by a 20 40 acre national historical sonusent designation, thus there would be no need for a wilderness designation of the rest of the Swestwater Rocks 8
 - If wilderness areas are to be foliated off upon the people of Mynaing, then equal acreage (45,089 acres, with Whiskey existing Wilderness inventory, and returned to subliple use. Areas for possible consideration eight include: summer peature lands, tibber lands, for expenditure of the consideration eight include: summer peature lands, tibber lands, for expenditure of the consideration eight includes assess the subject of the consideration of the

9

Wilderness, by definition, is resole and rugged contry, butter roads into it sight sake these areas accessable to possibly discriminated against, in the Wilderness land classification. Such as area sight be the estamaton of the road to Big Bandy spening, as far as Big Sandy lake.

- Access to the Sweetwater Canvon Overlook and Strawberry Creek involves 11/2 miles of vehicle trails leading to the edge of the canyon. The closure would eliminate problems caused by ORVs such as the watershed erosion on the Strawberry Creek access, but would require recreationists to walk to the river at these locations. Vehicle access to the river would still be available at either end of the WSA.
- 4. The primary use for the Sweetwater Rocks proper is wildlife use. No forage allocation for livestock has ever been made in these rock areas. Forage is allocated to livestock in areas outside the Sweetwater Rocks proper. The springs you mention provide water for both livestock and wildlife.
- Management under the Proposed Action would attempt to retain the area's natural qualities by not allowing recreation developments, major utilities, or upgrading of roads.
- 6. Very few people have ever seen a black-footed ferret. They are an extremely rare and extremely selective animal. We do know that they depend largely upon prairie dog colonies for existence. It is possible that black-footed ferrets do exist in the prairie dog colonies near the Sweetwater Rocks. As stated in the EIS, no ferret searches have been made in these colonies. Ferrets were recently found to exist in the Meeteetse area even though people living in the area for 50 years or longer thought they had become extinct.
- 7. The Dubois Badlands WSA and the Whiskey Mountain WSA near Dubois are being studied under a separate document. (Whiskey Peak, near Jeffrey City, is not a WSA). The study process includes public notification and comment periods.
- 8. Split Rock is listed on the National Register of Historic Places. This encompasses 160 acres of a 640-acre withdrawal area.
- 9. Only Congress can designate wilderness. Through FLPMA, Congress directed the BLM to do wilderness studies on public lands.

- We specifically oppose all the W.S.A. areas to Wilderness classifications within the Lander Wilderness Supplement.
- oc: Senator Molcom Wallop Senator Allan Siapson Representative Dick Cheney



SIERRA CLUB



PUBLIC LANDS COMMITTEE

16

12623 -- 10th Ave. N.E. Seattle, WA 98125 (206) 362-5269 February 13, 1986

Jack Kelly, Manager Lander Resource Area Bureau of Land Management P. O. Box 589 Lander, WY 82520

Dear Sir:

Nith considerable alarm and disappointment, I recently learned that the BLM has recommended against all or part of three considering the small acreage involved in the Wilderness Review process, the BLM should have recommended in favor of the All Wilderness alternative.

Mille noting correctly the fine recreational opportunities and the wildlife habitat in the area, the BLM should have favored Wilderness status for the entire Sweetwater Canyon WSA.

The recommendations against Sweetwater Rocks and Copper Mountain are wholly unjustified. Indeed the BLM could not find one important conflict between Wilderness and other uses in the Sweetwater Rocks. It should be clear to the BLM that, without Wilderness protection, the rest of Copper Mountain with the Compensation of the C

Your office's non-wilderness recommendations are especially difficult to understand when the threats to these wild places are so obvious. Even the most casual visitor to your Resource Area knows that roads, oil and gas exploration, and off-road wehicles have wrecked the wast majority of BLM lands, and if unchecked by Wilderness designations, will lay waste to what little remains

For this reason, I urge you to recommend all the WSAs, and all the acreage within those units, in your Resource Area for Wilderness designation. This would include Whiskey Mountain and

Responses to Letter 16

- The partial wilderness recommendation includes the "core area" of the Sweetwater Canyon WSA—the canyon itself. This alternative would eliminate conflicts with any resource that required motorized access on a routine basis. It would include in the designated wilderness the area containing the river and canyon setting and exclude some mining claims that could conflict with wilderness management.
- In the Sweetwater Rocks WSAs, the wilderness character of the area is not expected to change even if the WSA is not designated, since there is little potential for mineral development.

The potential for oil and gas occurrence in Copper Mountain WSA is moderate. If requested, commodity development would be allowed under the proposed action. Any development would be subject to the surface protection stipulations shown in Appendix B. These stipulations are applied to prevent erosion, losses of water quality, and disturbance to wild-life.

the Dubois Badlands, which, as you know, contain critical habitat for bighorn sheep.

Thank you very much. Would you please inform me of your final decision?

Sincerely

James M. Baker, Chair BLM Wilderness Subcommittee National Public Lands Comm. Sierra Club



Mr. Jack Kelly Lander Resource Area P.O. Box 589 Lander, Wyoming 82520

Dear Mr. Kelly:

While Priends of wild Myoning Deserts appreciates the opportunity to comment on the heaft Environmental Impact Statement for Annéar concern your failure to notify us of the public meeting dates and comment deadline—despite the fact that we expressed interest months before the draft was released. I request your explanation of such manifest delinquency, which leads one to question whether EUM is sincerely interested in gathering public input on the dolls.

Based on careful reading and review, the major goal of the RMT appears to emphasise commodity production above all other values. Desert Friends cannot support this plan which disregards BLM's mandate for multiple-use management.

This emphasis on commercial development is shown in the three oil and gas siternatives to present management. They all call for increased sorreage open for leading. Index leading the call for a compared to the commercial call for the case of call and gas and phosphate development, at very sinisum, the following areas should be withdrawn from oil and gas, locatable siners!, and phosphate development; lands around Sinke Camyon State Park, and Canyon, Lander Slope, South Pare, Whisey Monntain, Dant Fork, and Dubois Bedlands, Unique cultural and matural resources in these cames deserve the highest degree of protection.

The BMD's commodity production slant is evident in proposed forest management. The preferred alternative recommends 6.2 MMB of timber harvested annually—an increase of over 100 percent from the current laws of 1.0 MMB. The translation of the large slape and South Pass Management Units. Even scall yourse taken there would not be worth additional roads and impacts on wateraheds.

The preferred plan for grasing also concentrates on costly, publicly-financed development. It calls for construction of 45 to 55 miles of fence, 10 reservoirs, and 57 other water projects, and for 8500 acres to be burned or sprayed with harbi-aids to reduce sagabrush.

Responses to Letter 17

1. The ratings for the potential of an oil and gas discovery in the Sweetwater Canyon and Sweetwater Rocks are low to none, respectively. Accordingly, we do not project any oil and gas exploratory activity in these WSAs. Wilderness designation would close these lands to any oil and gas leasing exploration and development so that the possibility of any future discoveries would be foregone. Although the U.S. Geological Survey rated the Copper Mountain WSA as having a low potential for an oil and gas discovery, our more recent rating indicates a moderate to high potential for the occurrence of oil and gas. A well drilled on the edge of this WSA found several thousand cubic feet of natural gas in different rock formations. The subsurface geology in the Copper Mountain WSA is very favorable for the entrapment of hydrocarbons. Wilderness designation would preclude the exploration and development of this high to moderate potential area. As you will note in Chapters 2 and 4, we project some oil and gas development in the Copper Mountain WSA.

While there are no pre-FLPMA leases in the WSAs, this does not mean there has not been an interest in leasing. Applications to lease within the WSAs have been rejected. During any given five- or ten-year period, several thousand

We oppose the use of herbicides and new developments for the based of the property of the prop

The RMP states that public lands in the resource area are available for utility systems on a demand basis. We must oppose this provision and insait that BMM accept its responsibility, rather than leave protection of many pristine areas in the hands of devalopers.

While advocating many actions which degrade natural scoaystems, RM proposes little to defend a fragile scoaystem; or even to strigate environmental impacts. Restrictions continued we stigate environmental impacts. Restrictions continued we let to variety. The draft fails to name parties responsible for constroring and ensuring protection during development activities. Should budget cuts occur, it is unclear how RIM will prevent unchecked entironmental impacts.

Beart Priants urgs pretention of natural and cultural values. The portion of Beart Creek, and Mills, lander lipes, Red Canyon, and South Pass Management Units stated in the AETS, as well as the Organ/Merono Trail courtier, deserve designation a kreas of Canyon as Mational Matural Landmarks, and South Pass and a Mational Matural Landmarks, and South Pass and a

We appreciate efforts to preserve historic structures and rock art. However, there remains a great modd for further archeological inventories across the resource area.

We call for maximum protection of crucial and critical wildlife range. We also advocate habitat improvement without the use of habitides and fortilizers. Efforts to restore Highern sheep to their forcer boneland in Swestwater Rocke, as mentioned in the RPP, would be an extremely valuable project.

Our comments for Swestwater Rocks, Swestwater Canyon, and Copper Hountain Wilderrees Study Areas are included in the accompanying and Dabols Badlands, should be included in the National Wilder-mons Preservation System. We look forward to receiving the AEIS for the latter two areas.

As BIM revises the Lander plan, we hope that non-commodity uses will be carefully appraised. Most of the resource area has already sustained a treasendous amount of explicitation and degradation. It is long past time for BIM to protect remaining wild areas and values, and to kegin balanced multiple-use management.

Sincerely.

Lynn Korten Lynn Kinter Director

cc: Senator David R. michols; Travel, Recreation, and Wildlife Committee Committee
Representative Peg Shreve; Travel, Recreation, and Wildlife
Committee
Congressman Richard Cheney
Senator Alan Simpson
Senator Malcolm Wallop

leases on public lands are never drilled, but that does not positively identify the lands as having no potential for oil and gas resources. The absence of pre-FLPMA leases in the WSAs does not identify the lands as having no potential or high potential for oil and gas.

- As indicated in this document (Chapter 1), livestock grazing would continue at present levels even under the All Wilderness alternative for each WSA. There would be only minor changes in the permittees' operations.
- See Response 5 to Letter 14.
- Vehicle restrictions in the wilderness alternatives would limit motorized recreation use, but this was not expected to have a major impact in any of the the WSAs. Copper Mountain would continue to be used primarily for hunting, and access would be available along the east boundary. Access to and within the Sweetwater Rocks WSAs is dictated by the topography and land ownership pattern. Lankin Dome, the unit on the far west end, is bordered by a county road. Vehicular access to other portions of the Sweetwater Rocks WSAs would require road improvements and/or easements. Please refer to Chapter 4 in the Final EIS.
- 5. This issue has been eliminated from the final EIS. Please see Chapter 1.



"FRIENDS" CALLS OF BLM TO HEET ITS WILDERWESS MANDATE

The Lander Resource area of central Myoning has released a Draft Resource Management Plandfraircommental Impact Statement and a status 80 Mg Barcar-1, 5 percent of the land managed by Lander Resource Area, To our disappointment, the Barcar of Land Manages meant recommend designation for only part of Sweetwater Canyon WS-

Side acres.

Bid states—and we wholeheartedly agree — that all the Wise have exceptional wildermess values, outstanding opportunities for solltude and primitive recreation, and many special features.

Both states—and an acres of the state of the state

Sweetwater Canyon and Sweetwater Rocks contain three ecosystem types not represented in the Mational Wilderness Preservation System, according to the Braft, all the WSas would be manageable as wilder-

BM addresses several concerns in the Breft ZIS--but with psculiar logic. The first is that "designation would advarsely affect sineral development." Newwar, oil and pas potential in Sweetwister Casyon Survey rated potential in Cooper Neumania es low, although BM rated it high. Home of the areas have cre-tiPMs oil and gas leases (while the sine state of the rated at the state of t

BLM also considers affects of designation on the livestock industry. According to the Draft, grazing would remain basically the same, and any webcite restrictions would have little effect on management.

However, some of the private landowners near Sweetwater Rocks object to having a wilderness bordering their ranches. That appears the anjor-if not only-reason for failure to recommend this complex of national significance. The hrwit actually a tates that designation for each ares is expected to cause few.

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for each area is expected to cause few, if any, so loccomesic impacts.

BMN is occurrent that which restrictions will list it recreation
use. Yet Copper Hountain is unroaded, and short two-track ways total
only 3 miles in each of the other two areas. Sweetwater Books access
seems to be the main concern, since the complex is largely surrounded
by state and private land, Yeitors cannot drive to the boundaries or
private citizens allow access across their land. Currently,
private citizens allow access across their land.

hild also raises the less of peaking over use due to wilderness classification, but this has cover been the case in Youing. This is the weaker possible rationale, an obvious attempt to avoid meeting the clear mandate of law. 5

Ing the clear mannate of LAW.

Congress has directed BIM oprovide wilderness experimentates for Congress has directed BIM oprovide wilderness experiments of the Congress that Lander Resource Area revises the Resource Management Plan/ Environmental Lapset Statement to recommend designation for all six areas revisesed. Our embbers and supporters should communicate their areas revisesed. Our embbers and supporters should communicate their Lander West 2500, and to amsubers of Congress. We shall continue to monitor and report on developments. For the present we call on BLM and the Department of the Interior to respond in a positive namer.



Continental Divide Trail Society

F.O. BOX WALL

BETHESDA, MD. 20814

18

December 26, 1985

Mr. Jam Krily Lander Bestures Area Hanager P.O. Son 181 Lander, Monsley #2520

There you fee a irrelation to submit comments and raft record in the Milderness fee to following, for incorporation in the Milderness addition to other research

addition to their sends and recreational values of Swetterlan records in social to the control of recreational values of Swetterland records, as social have included vertex and record records and the control of the Swetterland of the Control History 1, vol. 1, Worth pp. 129-118). Swetterland I is clear that measures need to be taken to present the sample in the natural state.

greated protection of sights tasts, we have recognized in this case, and the provided by the same protection of the six makes a second protection of the six makes a second protection of the six makes as the six makes a second protection of the six makes as the

It is no namer to may that BHS plans no trail designation for the CET. In our companion lating to you if this date on the plan as a whole, immerpersed barch by reference, we emphasize BMS emiliation to range to a rande spiritual process. A failure to consider the lampate of single-mass designation upon emission for location of the CET would not comport with NUMA.

is endingly, it is our view that the Milderness Supplement must be revealed in first any differences which adoption of one alternative or as the might have used to appare the property of the state of the middle of the state of the state of the middle of the state of the s

Figure 141 of more 1f you have any question regarding these comments

Stacerely, Russ



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Rocky Mountain
Oil & Gas Association, Inc.

Alice I. Frell Lands Director



January 7, 1986

Mr. Jack Kelly Area Manager Lander Resource Area Bureau of Land Management P. O. Box 589 Lander, WY 82520

Dear Mr. Kelly

I am writing on behalf of the Rocky Mountain Oil & Gas Association (MMDGA), to offer our comments on the proposed Resource Management Plan (RMP) and Draft Environmental Impact Statement (IOIS) for the Lander Resource Area. MMDGI is a case of the Comment of the

First we would like to emphasis our support of the BLM's philosophy that energy and smirt searches received the total amagement planning process on an equal balls which the philosophy in theres of giving energy and internal activities high priority in areas which have significant potential for exploration and development. It is discussed to the process of the proc

With some minor modifications to the land management proposal, we could support the BLM's Preferred Management Alternative D. We are primarily supportive of this alternative because it affords ainaril resources the ambe priority considered by some to be pro-development, we do not it this proposal may be considered by some to be pro-development, we do not it this proposal may be considered by some to be pro-development, we do not it this proposal may be conlained claim that those areas which require special antegwarding from possibly hareful activities are provided full protection against adverse impacts. Tet, if industry can show that oil and gas activities can be conducted in a manner which would mitigate adverse impacts, the BLM is prepared to waive these restrictions on came-dy-came basis.

Responses to Letter 18

- 1. Designating Sweetwater Canyon as wilderness would not preclude consideration of the canyon as a possible route for the Continental Divide National Scenic Trail. The section of the BLM wilderness policy to which you refer concerns minimizing conflicts associated with concentrated visitor use but allows sufficient flexibility so that reasonable alternatives need not be forgone. Some important factors to consider when we evaluate the canyon as a possible route include livestock use, visitation, primary or side trail routes, or co-locating the Continental Divide National Scenic Trail and the Oregon/Mormon Pioneer National Historic Trail.
- We recognize our responsibility for route selection which will be accomplished with the use of management guidelines established in the Lander RMP/EIS for the various land uses along the Continental Divide. More detailed planning and more specific guidance will be developed in the future.
- 3. We have not identified any impacts that designation or nondesignation would have on the potential for Sweetwater Canyon as a route alternative for the Continental Divide National Scenic Trail. Nothing being considered in this EIS would preclude consideration of Sweetwater Canyon as a possible route for the Continental Divide National Scenic Trail.

Response to Letter 19

 There are no oil and gas leases in Sweetwater Canyon WSA. You are correct in saying that the opportunity to explore for and develop oil and gas resources would be forgone under wilderness designation. However, information used in our analysis indicates that there is no potential for oil and gas in the Sweetwater Canyon WSA. Therefore, the true effect on future leaseholders would be negligible because of the very small likelihood that development would occur under any alternative. January 7, 1986

No. Jack Totaly Line Manager Lander Resource Area Screen of Land Management

name to

This approach reason only reasonable since it growings industry with the opportunity for deless new ways in which to conduct its operations. New tembnology may be developed which could improve how industry operates in essential areas. When industry is constrained to operate in a rigidity specific meaner, there is design standards, provide for more flexibility, thereby encouraging new ideas on how to mitigate adverse impacts.

The But has gone to great tempths to compile and making recovere data for the BMT in terms of satisfar prisonness and possible anticonstant consciousness which would result from various solitation. The BMS has indicated that certain trackedfrawes and between energy and minaral resources and smustling environmental values, but only where the sineral potential was considered significant satisfar and the same of the same properties of the same and the same properties at satisfar resources enters in an eras with high potential, the BMI is committed to protecting this resource in a reasonable manner and in accordance with saisting laws generaling uson activities.

We holieve, however, that the BUM should endify this standard to include areas rated as having soderate potential for oil and gas. According to Table areas rated as having soderate potential for oil and gas. According to Table 27th, it is agreement that nearly as many veils are divided in crease consistent to the control of the contro

We do not support the BUT's decision regarding widerness recommendations. The BUT has determined that the Swestwater Carpon Milderness Study free is existent for widerness. Nevery it seems ormanously better bid by an encase to study policy provides a specific sat of criteria by which these decisions are made. Those include acciding to diversity and belancing the speciaphic distribution of widerness areas. Symming already matchains were three siltion access of diversity and belancing the special control of widerness considerations with the access of diversity and the state of the silting access of diversity of the silting access of diversity of the silting access to the silt

January 7, 1986

Mr. Jack Kelly

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Lander Resource Fres
Buresu of Land Management

ones thes

There is one point which needs clarification in the Final RMP: that is the discussion on Fags 188. Environmental Consequences, regarding to Surface Occupancy (MSO) attributions. It is stated on Fags 188 that \$55,000 ceras of the Lander Resource area are subject to MSO attributions; while Table 2-3 on Fags 13 indicates that 171,000 ceras are subject to MSO attributions. Apparently there are different types of MSO attributions: those which may be waited and those which have Amendated by management direction. We urge that MRI to be more specific in its discussion of these stipulations and to incorporate a comparison size that Plan.

comparison into the flam.

This was a flammer flammer flating that only the last of flammation that the document with ever equation and the flat of the flating that the document with ever equation to the flat of the flat o

In conclusion, we support the SLM's proposed land management decisions, provided that the above-mentioned modifications are made. It is our opinion that these changes will make a more resonable, balanced plan.

Thank you for your consideration of our comments. We would be happy to discuss our views with you. Flease do not besitate to contact se if you have any questions.

Alice I. Frall
Public Lands Director

120 mg

RECEIVED

LANGE AREA OFFICE

TRUE OIL COMPANY

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January 7, 1986

P. O. DRAWER 23 P H O N E 237-93 82602

Mr. Jack Kelly Area Manager Lander Resource Area Bureau of Land Management P. O. Box 589 Lander, WY 82520

Dear Mr. Kelly.



You and the BLM are to be complimented for finally giving oil and gas exploration, development and production an increased weight when deciding priority considerations in sensitive areas equal weight with cheer multiple use natural resources such as "Wilderness". Tou made certain tradeoffs between oil and gas and sensitive areas, but only when the oil and gas potential was high located in an area with high oil and gas potential the first located in an area with high oil and gas potential, the first already committed to comply with existing laws which protect these resources. Therefore, it is our belief that the BLM should modify this standard to include areas which have a moderate potential for oil and gas.

In Table 1-1 of your own plan on Page 191 of the Proposed Plan, it is obvious that there were almost as many wells drilled in areas of soderate potential as there were in areas of high in areas of soderate potential as there were in areas of high series, but in other areas also. This indicates that areas of moderate potential are just as important in exploring for and discovering oil and gas as are the high potential areas. The points considered in determining what stipulations should be applied to that particular area and certainly more severe stipulations should not be added just because you have accountated statistics that indicate the areas has only moderate potential for oil and gas discovery.

In your plan, you state that there must be ecological diversity and the wilderness areas must have geographic distribution.

Page 2 Letter to Jack Kelly

It should be pointed out that Wyoming already has over three million acres of wilderness and the Wyoming Wilderness bill has been passed concerning Forest Service lands which added well over a million acres of additional Forest Service Wilderness lands of the Wilderness India over the Wilderness India over the Wilderness India over the Wilderness and the Wilderness wilderness are so to be recommended as wilderness. With Wyoming already having such a treemedous amount of established wilderness, it is absolutely ridiculous to recommend lands for a wilderness, designation just for the sake of creating more wilderness. We, therefore, airnal of the wilderness and the wilderness and the spense of ill and gas lessees and other lessee.

It would be greatly appreciated if you would clarify the discussion on Page 188, Environmental Consequences, concerning No Surface Occupancy stipulations. On this page you state that stipulations, whereas, Table 2-3 on Page 43 indicates that 71,000 acres are subject to NSO stipulations - why the difference? Are there different NSO stipulations - Tao, would you please let me know that they are. If there are not different NSO atipulations, then you are strongly urged to be sore clear in you discussing of the stipulations.

The Moreon Fineer and the Oregon National Historic Trails abould have had sore discussion in your plan. There should be discussion in your plan how the Trails Plan will downteil with it Trails Plan adds one more layer of restrictions which is really unnecessary with the other regulations already in place. A 1/4 unnecessary with the other regulations already in place. A 1/4 unnecessary with the other regulations already in place. A 1/4 unnecessary with the other regulations already in place. A 1/4 unnecessary of the place of the plac

Thank you for the opportunity of commenting on your plan and once again you are to be complimented on giving other multiple uses of public lands additional weight -- though you still have a way to go before they are weighted equally.

Sincerely yours,

Robert O. Byron Administrative Asst. to H. A. True, Jr.

ROB/far

Response to Letter 20

Thank you for your comments.



PETROLEUM ASSOCIATION OF WYOMING

330 South Center, Suite 115 Casper, Wyoming 82601 (307) 234-5333

Richard T. Robitalile Executive Director Wendy H. Frueaut Associate Director

21

January 17, 1986



Mr. Jack Kelly Lander Resource Area Bureau of Land Management P.O. Box 589 Lander, Wyoming 82520

Re: Lander Resource Management Plan and Wilderness Supplement

Dear Mr. Kelly

On behalf of the Petroleum Association of Byoming, a division of the Rocky Mountain Oil and Gas Association, whose members account for 90% of the petroleum produced and 90% of the veils drilled in Myoming, please accept the following comments on the Lander Resource Area Management Plan and Wilderness Supplement.

NAV is in general support of the Preferred Alternative "D". While there are several clarifications with offications with the would recommend, the draft plan does a commendable job of affording oil and gas resources the same priority consideration afforded other resource values. We are pleased that a state of the property of the property of the property of the activities with other multiple uses and recognizes mineral potential as activities with other multiple uses and recognizes mineral potential as a factor in determining management cool, and assists the BIM in meeting the requirements of federal planning laws.

The Preferred Alternative provides that energy and mineral resources will receive priority treatment in areas determined to have high potential. We believe this Birp Delity should be modified to also include areas rated as the believe that the policy should be modified to also include areas rated as the property of t

The draft plan does a good job of describing what kinds of stipulations may apply to oil and gas operations. Total affected acreage figures are provided as well as maps indicating the areas involved. While this information is



330 South Center, Suite 115 Casper, Wyoming 82601 Mr. Jack Kelly January 17, 1986 Page 2



helpful there does appear to be some confusion in regard to total no surface occupancy (neo) acres. Table 2-3 (p. 43) shows now restrictions on 171,000 regard to 400 feet occupancy (neo) acres. Table 2-3 (p. 43) shows now restrictions on 171,000 regard to 170,000 regard to 170,000

Appendix 2 lists the standard protection requirements for surface disturbing activities, including oil and gas operations. The "guidance" discussions following each stipulation are very good explanations of the proper use of vilidific stipulations and should be measurable and legally definable. We are also plassed to see the resulted ref they then considering an on-lease option, a rigorous test must be set and fully documented in the record. We urge continued dathernner to these policies.

We suggest the final plan incorporate a more detailed discussion of the Descriptions Discuss Tital I beam has in currently provided (p. 21). The proposed Trail Plan represents an additional layer of regulation, and should be included in this and other affected resource area plans. At this point, we are unsure as to how the Trail Plan management decisions relate to the Preferred Aircratury. Please provide further icalification.

PAN is in support of all of the "nonsuitable for vilderness designation" recommondations in the Vilderness Supplement. We do not concur, however, with the partial vilderness designation of the Sweetwater Conyon Vilderness study area. This area contains numerous post-FLPMA oil and gas leases which would remain unapplied under the proposed action. We also question the need for additional vilderness designation because of the swellability of extensive vilderness operaturalists in the area and the area son the action.

This draft plan offers detailed analysis of how oil and gas activities impact other resources, ways to ministre these effects, as well as how management decisions impact the shilty to conduct oil and gas activities. We appreciate this comprehensive effort and believe that the draft proposal represents a well integrated nanagement plan.



cc: Hillary Oden Brad Penn Bob Byron Alice Frell

Response to Letter 21

 Our analysis agrees that opportunities to develop leases in the Sweetwater Canyon would be forgone. However, information used for our analysis indicate no potential for the occurrence of oil and gas in the WSA.

Citizens for Multiple Use

BOX 964 • DUBOIS, WYOMING 82513.



January 29, 1986

Jack Kelly, Area Manager Bureau of Land Management Lander Resource Area P.O. Box 589 Lander, WY 82520

Dear Mr. Kelly:

Members of the Dubois area Citizens for Multiple Use wish to express their sincere appreciation for the opportunity to formally react to the Draft Resource Management Plan/Environmental Impact Statement.

Citizens for Multiple Use is a recently formed organization of local citizens numbering over 400 representing the greater bubols area of Fremont County. Including sustained forestry yield management, oil and gas exploration, prudent wildlife management of pulllands, and recreation. We endorse the philosophy of good stewardship in our natural environment.

A broad based committee from the Dubois area multiple use group has reviewed the BLM draft plans and desires to go on record with the following endorsements:

- The overall development of the plan reflects a high level of competency.
- We compliment the BLM plan for involving those groups of people directly affected by the płan.
- We support the position taken in the plan for the Whiskey Maountain area relative to mineral exploration which states "no surface occupancy, etc."

Jack Kelly, BLM Area Manager

Page 2 January 29, 1986

4. We support in general the "Preferred Alternative/ Plan."

As a committee we have concerns which we desire to bring to your attention. We are hopeful that you will consider the following areas:

- We feel there are currently sufficient lands designated "wilderness areas" and that no further increases in this type of acreage are necessary.
- We consider any wolf recovery project a direct threat to our concept of multiple use and to the stability of our environment.

We respectfully request that you place us on the BLM mailing list. We desire to be current on happenings in the BLM.

Again, we appreciate the opportunity to respond to the BLM plan.

James McGulre, Ph.D. Chairman of BLM Plan Review Committee

JM:eam

Response to Letter 22

Thank you for your comments.



Feb. 10, 1936

Comments on the Lander Resource

The RMP focuses too heavily on oil and gas leasing and other extractive, consumptive uses. Leasing 100% of the land in the resource area for oil and gas development could adversely affect every other use of the land. The development of leases in certain areas will critically impact wildlife habitat, grazing, and

Since the UNI regards an oil and gas lease as a property right, then this draft planning state is the time to review the effects of leasing 10% of the resource area. Minfortunately, the NW does not accoupling this necessary task, int oil you does the plan fail to identify areas of critical wildlife habitat and high constant which will be seen to the plan fail to identify areas of critical wildlife habitat and high carectains us, but it then neglects to analyze the impacts of oil and gas development on these areas. For those which are described, such as the Oregon Irail and the South Pass Haboric Hining Area, the UNI resolves the conflict by proposing to issue leases with "no surface occupancy" (ROS) stipulations. There are problems with FOSs which I will detail later in these comments.

In addition to failing to specify the impacts of energy development, the RIP does not offer an alternative that maximizes recreation and alidife. Instead, and tidesting, As a result, see cannot support any of the alternatives, and we urge the bureau to devise a choice that preserves wildlife-recreational value at while allowing development. Such an alternative way prove the next economical while allowing development. Such an alternative way prove the next economical property which stresses tourisms as the future account bear for Nyowing-The Garft RIP rom counter to this philosophy.

Existing agreements should require the Lander DLH to withdraw some areas from oil and gas leasing. In 1969, the DLH, USFS, and the Upwoing Game and Fisher Department (EGD) signed a comparative agreement respecting the Winkiew Hountain Dunk of the Comparative agreement respecting the Winkiew Hountain Dlands are removed in the 1958 Whitely Hountain Digiters Sheep Comprehensive Management Plan. How, the burser plans to Issues coil and gas leasing on Whiteley Hountain. Since bighorn sheep are sensitive to attesm, such development activity will certainly adversely affect this herd. The DLH should honor its past efforts and comultements by authorizing all of the Whiteley Mountain Digiters sheep wither army from any oil and gas leading.

This same argument applies to the East Fork Dig Game Winter Range. On March 10, 1901, the Rowlins DLM signed a Memorandum of Understanding with the WGFD that "...oil and gas exploration, development, and subsequent operational scivities

"Not blind opposition to progress, but opposition to blind progress."

Myoming Chapter Sierra Club Lander Resource Area RMP Commente Page Two

ers not compatible with the dedicated use of this area." Once again, the SLM should hence this agreement and continue the withdrawal of this 16,911 acre area from all and one learning.

In a 1931 decision on the San River area of Montane, the Interior Doznd of Land Spasia sustaines a DN decision to days all and are leaving in this critical spasia sustaines and the second of the second contained and spassance with other approaches to entering the San River area for its wide life install. With this proceded and considering all the work that the SUP has performed in the heat in school and considering all the work that the SUP has performed in the heat in school and the second contained and considering all the work that the SUP has performed and the second contained to second second contained to

Concerning other widelife issues, any critical widdlife scase in Red Canyon, sinke Canyon, and the Index Slope should also be withforen. We support the MIN's praferared siterates to withfores the Dubote Bediened from ONV use and to light year of the State of the St

If the Biff pursues the proposed oil and gas lessing and tishering, then I as guite concerned about the sildlife on Green Mountain. This securit of evaluations extitities will cartainly shereasy affect this area. Not only sill the entire mountain he isseed for oil and gas development, but the Biff plan to increase the tisher harvest from 150,000 bourd fest to 2.1 sillian basef ents. The new roads allow will develope the the before the sillian basef ents. The new roads allow will develope the biff point for the 12.1 sillian basef to be built on Grean Mauntain, retain the greant oduped of tister (750,000 board fest) and

In some grass, the OLR has resolved perceived land use conflicts by placing 150 at policipos on oil and gas lesses. While we agree that oil and gas activities would significantly be the second significantly be the second significant to the second second

Also, MSD provisions are a management decision made by the DLM. The squercy could drop thems satipulations in the future. Thus, $150 \pm o$ not offer parament protection, no smoker two spoot the DLM's intentions are at present.

he a rebult of themed problems, the DLM should not issue all and gas leases with MSO elapsiatiphs. Dhetwad these areas should be sithdrawn from since) entry. This is at the only mad to incurs the continued preservation of historic sites, recreational apporphistics, and wildista habitat.

Responses to Letter 23

- In the final EIS, we have changed the alternative to read simply, "No Wilderness," The area would be managed according to existing land use plans and any special stipulations that are printed therein. There would be no overriding special designation that would automatically constrain certain land uses. If the WSAs were managed thus, certain activities could occur that have been precluded under the BLM's interim management policy. To assess the impact of this, one looks at the magnitude of the activity and the likelihood of its occurrence. The analysis leads to the conclusion that in most cases anticipated activities are not extensive and that the likelihood of their occurrence is low. Thus, it is highly likely that even though the WSAs would not be designated as wilderness. their natural character would change very little over time.
- 2. The prime wilderness values of the Sweetwater Canyon WSA are found within the canyon itself. The Partial Wilderness alternative for the Sweetwater Canyon WSA would resolve several conflicts and would not eliminate important wilderness attributes. Motorized access is a conflict that would be eliminated. Motorized vehicles are not easily kept out of the area outside the partial wilderness area. If full wilderness designation was recommended, there would be conflicts with unauthorized motor vehicle use in the wilderness area. A partial wilderness alternative eliminates this potential problem while still preserving the wilderness values of the canyon itself. We think any level of ORV use in a designated wilderness would be a management prob-
- 3. Please see Response 5 to Letter 14.
- 4. In the draft EIS, the four WSAs that make up the "Sweetwater Rocks" were analyzed together. In the final EIS, each WSA is analyzed individually, with each having an All Wilderness and a No Wilderness alternative. Thus, a possible scenario for the Sweetwater Rocks as an aggregate could be that one or more of the WSAs could be designated wilderness while the others would not. This would create the "core" you suggest. However, this scenario can be addressed only when Congress begins the formal designation process. Please refer to Chapter 1.
- 5. The potential for primitive, unconfined recreation in the Copper Mountains is outstanding. This is offset by a lack of water and rough terrain, and those features result in low visitation. It appears that this situation will continue despite the high use of the adjacent Boysen Reservoir and Boysen State Park.

Wyoming Chapter Sierra Club Lander Resource Area RMP Comments Page Three

In summary, the RMP needs to place more emphasis on preserving the resource area's suidife and recreational opportunities. In addition, more planning impacts of the recreation of the recreatio

With regard to the Wilderness Supplement, we believe that all of the Sweetwater Canyon, Sweetwater Rocks, and Copper Mountain KSAs should be designated wilderness. With the exception of the southern end of Copper Mountain, the RMP fails to Lebertly any resource conflicts. Conversely, the plan emphasizes the solisapprolatedly 7% of the Lunder Resource Area, are the only surviving pristing remembers of the Wild River Gasin, then I do not understand the DLM's reasoning in releasing ment of these Wilds for development.

The wording of some of the alternatives in the Wilderness Supplement demonstrates the DUH's abdivalence toward WSAs. For example, the preferred alternative for Sevenbards Focks and Copper Mountain is the "continuation of present management." Since these areas have a lawys been "wilderness" and no man-made development has preferred alternative would retain the areas "wilderness status. Instead, "continuation of present management" actually means that the bureau wishes to permit activities which have never previously transpired on these lands. Thus, the wording of the alternative indicates that the DUH had never intended to manage these areas as allderness.

In addition, the applient continually incline that milerress is not a multiple use. This is a faller, hereaften, wildiff, scientiff con thistoric preservation, protection of water quality, hunting, clean sir, and grazing are legitimate uses of a siderness area. I do not believe that one can attain such 100% of the resource area while preserving only, 12 of the basin's natural habitat is hardly balanced or multiple use management.

As a result of these bisses toward development, the wilderness supplement is characterized by contradictions. The boreau describes the excellent fishing, solitude, and unique natural features of Sweetwater Canyon and adults that the positive wilderness characteristics of this KGA outwelfy any negative aspects of wilderness characteristics of this KGA outwelfy any negative aspects of wilderness characteristics of this KGA outwelfy any negative aspects of wilderness characteristics of this KGA outwelfy any negative aspects of wilderness characteristics of the MCD of the wilderness characteristics of the MCD of the wilderness characteristics of the MCD of the Wildest Canyons in Myoning.

The agency cities some ranchers' objections to milderness as the primary reason for releasing sily of Sweetwater Rocks to development. The DUM proposes to allow GNU use of this area. It would appear that the local stockement would be more concerned should the large influx of motorized vehicles near and in their papear of the stocked proposed to the large influx of motorized vehicles near and in their papear primarily dependent upon the fluctuating population of nearly afferty city. Once again, it appears that the agency is looking for any excuse to release a VSA to development.

Wyoming Chapter Sierra Club Lander Resource Area RMP Comments

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I also believe that Sweetwater Rocks justifies another alternative. Rather than choosing between all or no milderness, the BUH should have devised a third alternative which encompassed the core of the area. While the Chapter supports milderness designation for the entire MSA, a "core" alternative would persit some discussion among the DUM, ranchers, and other interested parties.

In the analysis of the Copper Mountain NCA, the DLM dwells on the high potential for its reason and the secondary of this area. Newers, it fails to evaluate for its reason and the secondary of the secondary of

In summary, the Wyoming Chapter believes that all six WSAs, and the Dubois Dadlands and Whiskey Mountain, should be designated milderness. One cannot find these small precious mildlands anywhere else in the world. Why should we want to develop these lands like we are doing on 90% of the resainder of the resource area?

Even though we believe that several weaknesses exist, the MPP does have some positive aspects. The proposed management plan for the South Pass Historic Mining area is perhaps the best part of the plan. Recreation and gold mining the plan of the plan. Recreation and gold mining the plan of the case part of the plan of

We strongly concer with the stipulation in the MPS that requires plans of querations for all proposed mining operations within the historic district. O, requiring this study, the BUS will insure that mining will not destroy important historical and archeological results. This policy is the correstore of connication of the control of the control of the control of the conside the local communities could destroy historical sites and significantly cuttail the recreational potential of this area.

We also agree with the DUM that the federal agency should continue the present mineral aggregations in the historic district, especially those in Sections 20 from South Peace City to the Correct Shicks user. These segregations will not only probect significant sites, but will also retain the visual integrity around the South Peace(tity historical area.

We also applaud the DLM's desire to manage the historic district "...toward mainbaining recreational opportunities in terms of rustic, open space settings" (p. 332). We also agree with the RMP's provisions to limit ORV use to existing roads and that existing roads provide adequate access in the district.

Myoming Chapter Sierre Club Lander Assource Area DMP Couments

No command the DLM for its appreciation for and desire to preserve Wyoming's historical heritags in the South feas area and slong the Deepon Trail. As 1 have allowed, noted, we hope that the DLM withfease these important areas from oil and gas development rather than ellow lessing with MSO attpulations.

24



Chevron U.S.A. Inc. 700 South Carondo Wed., F. U. Box 589, Danier, CD 80291

M. M. ILad Floring

February 14, 1984

Draft BW/Vildermens Study Lander Resource Area

Nr. fact felly, Area Manager Lander Resource Area Marass of Land Management P. D. Box 149 Lander, Myoming 82520

Dear Nr. Eally

Ve ere in support of your Preferred Monagement D, because it recognises assessed as principle and a second second

Your ples shows that carrain tradesfa were made between energy and miseral resource and sessitive values, but the problem is then this war does not) where the miseral petential was considered significant control of the period of the control of the period of the control of the

Secondly, Dyuning maintains over 3 million acres of wilderness. Your ecommodation for more wilderness just for the sake of creating more utilderness at the appears of oil and gas iscasses who would less their rights on switzing lesses, (a unjustificable. We want to mitigate adverse impacts, and ere willing to comperate with you to maker that this happens. However, over an area is designated as wilderness, element of all of the milityin case allowed on other federal leads are prohibited.

Thirdly, we request a more specific discussion of the \$50 mispelations, by understand that there are 2 types of \$50 mispelations. Here there is many he valved and those that are mandated. We would like now what types of \$50 mispelations are being referred to on page 150, where you state that \$50,000 areas of the Laser AA area subject to \$50 mispelations, as well as it Table 2.7 on page \$5, where you write that \$15,000 areas are well as the table \$15,000 areas are well as the table \$15,000 areas are subject to \$50 mispelations, as well as it Table 2.7 on page \$5, where you write that \$15,000 areas are wellyte to these alignifications.

Harriore Region - Communication, Land and Podestion

4

Response to Letter 24

1. See the response to letter 19.

Mr. Jack Kelly, Area Manager

We appreciate the great lengths that your group has gone to in order to compile this draft, and applied you for your recognition of the necessity to keep the Lander Assource Area poper to oil and gas activity. Can mitigate adverse impacts. We hope you will take our three recommendations into account so that the oil and gas industry says have an even greater opportunity to operate with due care in your resource area.

Sincerely years.

You Glocke

1007-01

25

[Text of this handwritten letter has been typed for better readabilty]

ROBERT F. BUCKNAM
P. O. BOZ 1800
DUBOIS. WYOMING BEETS
Falancing 9, 1986

Hr. Jack Kelly Area Hanager P.O. Box 589 Lander, Wy 82520

Lander, Wy 82520 Dear Hr. Kelly:

In May 1980 I wrote your office saying that an intensive inventory be made of the Dubois Bandlands and that it be protected from abuse and irreparable damags by off road whicks until videraness designation could be determined. A BLM sign placed in Treason Draw for protection of the area had been Knocked down and later remored, as one example of abuse.

The draft plan for managing public lends in the Dubeis area proposes keeping the Badiands spen for oil and gas development due to moderate oil and gas the lands of the Badiands the Badiands of the Badiands but throughout the Dubeis area. While some total to the Badiands but throughout the Dubeis area. While some services of the Badiands but throughout the Dubeis area. While some services well critically as for not a treat, it is my balied that future gaseration will criticise as for not a treat, it is my balied that future gaseration will criticise as for not a treat, it is my balied that future gaseration will criticise as for not a treat, it is my balied that future as a for not a treat, it is my balied that future gaseration will criticise as for not a treat, it is my balied that future gas and the seal which the Badiands. Uniting adjected to the Badiands and having whiled each dress and to gas a probably recognize the need force preserving the areas more than the caseal viewer or visitor.

The Whiskey Mt. area is familiar to most Dubois people and I am at a lose to understand the reason for its omission from the list for wilderness designation. Since it adjoins the Fitspatrick Wilderness I urgs that it be given wilderness status.





Response to Letter 25

 The wilderness study for Dubois Badlands and Whiskey Mountain is being completed under a separate document. Mr. Jack Kelly Bureau of Land Management Lander Resource Area PO Box 589 Lander, WY 82801

Grand Forks ND 58201

Dear Mr. Kelly.

I read, with some donorry, an article in the paper that described the BMT's place regarding vildernees the central Worsing. Is a geologist and outdoormen who has worked and played in the plains states for 25 years. I saw very familiar with the toil that oil, gas, coal and other industries have exacted from our wilderness to find any primiting lead left, and I believe the time has one to say 'this is the limit to what development and resource industries can take away from us.'

One of the evens that I as very familiar with in the Aliantic City/Gouth Pass City sinting district. I have prospected for gold, taught geology classes, led field trips and westioned in that area. One of ey favorite epote is the nearby Sweetwate Canyon-I even caught the biggest trout of sy (limited) fishing Wilderness Gesingantion for the entire area (with a optical "Wij is the only wure way to guarantee it. As I undermatand it, your current rescuessedations are for little sore than half of it to be

The Wind River Compon area is another one of sy favorite spote in Vyoning. Although there is little left in the eay of undisturbed land there, what remains should be preserved. The Copper Mountain area is one such place, and I urge you to give it the questions below) need Wilderness protection as well -- I urge you to recommend, and promote, such protection.

to recommend, and promotes, even protection.

I would appreciate hearing from you. In particular, could you please answer the following questions: 1. Now many acree of land does the Myoning Bill meaning?

Z. Now many acree are in what meaning the many acree of the many acree of the meaning the many acree of land are left in the Sweetvater Canyon, Copper Mountain, Sweetvater Mocke, Whistey Mountain and Dubois Bediande that might qualify as the many acree of the area of the time to be supported to the second that the second to the second to the second the second to the second

Sincerely, Dex Perkin

27

GRAVES & ASSOCIATES, LIMITED

P. O. BOX 1686
RIVERTON, WYOMING 82501 (307) 856-7888 February 11, 1986

Mr Jack Kelly Lander Resource Area Manager P.O. Box 589 Lander, Wyoming 82520

RE: Copper Mountain, Sweetwater Canyon, Sweetwater Rocks, Whiskey Peak & Dubois Badlands wilderness management plan.

Dear Sire

2

3

I am opposed to any designation other than multiple use for the Copper Mountain and Sweetwater Canyon areas because of the mineral potential of the areas. There are numerous prospect pits and trails interupting the Copper mountain area, while the Sweetwater canyon area contains potential for heavy mineral placer deposits, Wilderness designation would only enhance human activity in both areas.

The Sweetwater Rocks area may be low in potential for the discovery for the precious metals, but retains high potential for for the industrial minerals. Numerous roads and trails cross the area, but few people wands around there. Widerness designation would increase. The land is useful for grazing and hunting and should be kept in the multiple use concept.

The Whiskey Peak and Dubois Bedlands areas have considerable potential for the development of oil, age, and numerous other min erals. I am absolutely opposed to wilderness designation of these areas, and can not conceive why anyone would want to restrict these lands from multiple use program. The Whiskey Peak area has a wide range of mineral interest potential.

I am opposed to any program that restricts the use of these lands in any way. All the areas are small in size and probably do not qualify for wilderness consideration under the original Act, just for that reason. The wilderness advocates keep picking control of the control of

Wg/bg



Response to Letter 26

1. BLM in Wyoming manages 17.8 million acres of public lands. Most of the public lands are in the western half of the state. The Lander Resource Area administers approximately 2.5 million surface acres and approximately 2.7 million acres of federal mineral estate.

The Sweetwater Canyon WSA contains 9.056 acres, of which the Proposed Action recommends 5,760 acres for wilderness designation. The Copper Mountain WSA contains 6,858 acres, and the Sweetwater Rocks group, 32,575 acres in the four units. The total acreage involved in the six WSAs addressed in this plan is 48,489. The two study areas that will be analyzed in 1988 are Dubois Badlands (4,520 acres) and Whiskey Mountain (487 acres). There are no other locations in the Lander Resource Area that would qualify for wilderness study.

Competing interests in the areas are conflicts involving recreation and wildlife interests with mineral interests, private landowner concerns, and access.

The BLM is required to report to Congress on the study areas by 1991.

Responses to Letter 27

1. The Proposed Action for the Copper Mountain WSA is a preliminary recommendation for continuation of multiple-use management. As directed by the Secretary of the Interior, the WSA will remain closed to oil and gas leasing until Congress makes the final decision, but it will be open to mineral entry under the General Mining Law. The BLM determined the Copper Mountain WSA to be a roadless island of 5,000 acres or more of public land during the initial WSA inventory. As such, the WSA is not interrupted by numerous prospecting pits and trails, as you have indicated. Minerals prospecting and diggings have occurred outside the WSA and are common throughout the general Copper Mountain area to the east.

The Proposed Action for the Sweetwater Canyon WSA is to recommend partial wilderness. Lands within the WSA that are encumbered with older mining claims were excluded when the lands for further study were selected. Further mineral potential studies will be conducted by the U.S. Bureau of Mines and the Geological Survey on the lands within the WSA. The results of their studies will be presented to Congress, which makes the final wilderness decision. The

mineral evaluations of the Copper Mountain and Sweetwater Canyon WSAs are correct to the best of our knowledge and could not be changed without new field studies.

- The Proposed Action for the four Sweetwater Rocks WSAs is a recommendation for continuation of present multiple-use management. However, the four WSAs will remain closed to mineral leasing but open to mineral entry pending a decision by Congress. The potential of these WSAs for locatable minerals can continue to be evaluated by interested individuals. Exploration and mining operations would be permissible so long as wilderness suitability is not impaired.
- Both the Whiskey Mountain and Dubois Badlands WSAs will be studied for wilderness suitability, including the mineral potential. An EIS will be published in 1989.
- 4. Although the wilderness authority in FLPMA is critical to the BLM's wilderness review effort, the Wilderness Actidentifies the criteria for evaluating public lands for wilderness and gives direction on how designated wilderness will be managed. FLPMA sets deadlines for reporting wilderness recommendations, requires studies to be conducted, and specifies how the lands under wilderness review will be managed.

To fulfill these requirements, the BLM basically performs five functions in the wilderness program. The agency (a) inventories the public lands for wilderness characteristics, (b) protects areas under going wilderness review, (c) studies identified WSAs, (d) reports these recommendations to the Secretary of the Interior, and (e) manages all wilderness areas designated by Congress to preserve their natural character.

Many people use the word "wilderness" in the traditional sense to describe any piece of undeveloped land. Since passage of the 1964 Wilderness Act, the word has also come to mean federal land officially designated by Congress as part of the National Wilderness Preservation System.

In the Wilderness Act, Congress said federal lands must have the following special characteristics to be considered for wilderness preservation: (a) they must be in a generally natural condition, (b) they must have outstanding opportunities for solitude or a primitive and unconfined type of recreation, (c) they must be at least 5,000 acres in size, or large enough to preserve and use as wilderness, and (d) they may also contain ecological, geological, or other features of scientific, scenic, and historical value.

invest cary of a bandwritten letter.

Dear Rr. Relly.

Owar Mr. Meanly.

I would like to reice my opinion opinate wilderness designation within the
measurer canyon area and the Copper Monotain area. I would be very
increased in now amby people as should they want this have been in these ateas
in the last year. I have been in both areas measures occasion. Every time I
wedges with see and reverees. The Children would not have had the
apperiances of rook climbing, gold pearing inc showeis], rock buntled, eage
chicken huntled or withing out of season just to mantime a few things we should
with the children and friends when they come with ms. One to the long
hits that would be imposed to lot the their been pound and the

ANALYSE (BARCO I as very much spatish the Cypper popuration area being closed is fam. to we becomed as a spatiopist. I feel these are anny insteads and other deposits that shouldn't be shot off. Anny of these opposits only have a few localis in which they are faved within two District detress may of these effect out with the contract detress may of these ere our vital assectation. Engaged the description of the contraction of t

Many of the stass now proposed especially the Swestwater Caryon area are far from being applied due to rough terrain and even worse warsher such of the year. Yeu in July casping there is front on the ground for the morning and believe as being a waters campay, the alob campur, and casual defacer of our land desan't worth each the feeth

As a person who has many outdoor interests that have been taught to me since I was three end eterted primitive comping in mismorri and the case areas of Ontario. I deal enough land has been locked for the Outsy emperations and that for the economic good of this area, imining, ranching, and tourism) I do not think these draps area will discussed emphasics.

than you

/s/Alice L. Quetin F.O. But 468 Riverton, WY 02501

29

|Typed copy of a handwritten letter.|

3-10-86

bear Mr. Kelly.

I for one am against any kind of wilderness on b.L.M. lends, for the simple season that it closes the area off to the ederly and our young people or even the handyreaped People. So that Dearty is to be seen can only be viewed at distance that is not applicable to the view person. I have also the copper and, area to the very cited in viewal amenia to this county and the value occious. I happend to know of some vary paperisk aincrease on copper atm. and could prove within the organization of the provided provential to now appear provided the provided field. I will not appear that in our appear with not it is multiple uses.

the sweetwater cocks ere in it own a wilderness because of the weather conditions out there but it too had it's importance as a moltiple use. Exsetwater canyon is a nother example of multiple use from mining to huning.

So in your management plan I would like you people to take in consideration the very young and very old and handy cap and the under develops people in mind. People that have to bestle to be notife and would need transpertation to three areas. Also the need of future minerals needed.

Sincerely Yours

/s/Nelvin E. Custle F.O. am 448 Biverton WE \$1801

Response to Letter 28

1. Wilderness designation has not been proposed for the Copper Mountain WSA, Wilderness designation of the Sweetwater Canvon WSA would not impose significant access restrictions. Partial wilderness designation of Sweetwater Canyon would have very little impact on access because (a) river access would still be available at Chimney Creek and Wilson Bar, and (b) closure of the Strawberry Creek access route would still allow motor vehicle use to within ¼ mile of the river at this point. The activities you appreciate so much-sightseeing, rock climbing, rock hunting, hiking, and sage grouse hunting and observation—would not be curtailed by partial wilderness designation; instead, they would be allowed to continue and would be enhanced in some cases.

Response to Letter 29

Thank you for your comments.

30

[Typed copy of a handwritten letter.]

2030 S. Walnut Casper WY 82601 Feb. 9, 1986

Hr. Jack Kelly, Area Hanager Lander Resource Area P.O. Box 589 Lander WY 82520

Dear Mr. Kelly:

I am writing in regard to your Draft Resource Management Plan/EIS and Wilderness Supplement for the WSA's in the Lander Resource Area.

I am in favor of designating all of these MERA as Wilderness Areas. All of them, as you state, have exceptional wilderness values, outstanding of the state of th

[that for wilderness designation.]

Tour main concerns, apparently, are the effects of wilderness designation on mineral development and on the livestock industry. Oil and gas potential in Bestevator Corpora and the Development and the Development and the Development of the Property of

The same goes for the effects of designation on the livestock industry. According to your defact, grazing would remain basically the same, and only challed the statistic of the same of t

Tou are concerned that vehicle restrictions would limit recreation use.

Copper Rountain is unroaded, and there is only a total of 3 miss of tracks in sect of the other two areas. Access by foot is easy and can be accomplished on public label.

You also raised the question of overuse due to wilderness designation. This has not occurred in National Porest Milderness Areas in Myoming, and is a very weak argument for your dismal wilderness recommendation.

Although I have not been to the Copper Mountain WSA, I know it is important as deer and antelope winter range, and includes steep canyons and spectacular views.

I have hiked, camped, and fished in Sweetvater Canyon. This canyon is a refreshing ossis in the plains, important for birds and other critters, including six and moose. It is a quiet and peaceful place, and I would hate to ever see it developed in any way.

I have also hiked and camped in the Sweetvater Rocks. It's a very intriguing place, with the hope granite domes popping up out of the sagebrush. I could happly speed weeks exploring one Rocks. They are a haven for vilidite-one of the biggest thrills and surprises I've had was seeing 6 or 8 bighorn sheep on the flanks of one of the domes.

I strongly believe that all three of these MEA's, a total of 48,899 areas, should be designated Wilderness Areas. The conflicts with other uses are slight, but the uniqueness and diversity they would bring to the Wilderness System are great. They are wonderful examples of Wyoning, and we should be proud to preserve them.

Sincerely, from a native,

/s/Martie Crone

Responses to Letter 30

- Manageability is not an environmental issue, and the discussion has been deleted from the final EIS.
- On the basis of analysis done in the Lander Resource Area RMP/EIS (USDI, BLM 1985b), we believe that the Copper Mountain WSA is more accurately rated as moderate to high for oil and gas potential.
- 3. See response 3 to letter 17.
- Vehicle restrictions would limit certain types of recreation use. The magnitude of this is discussed in chapter 4 for each WSA.
- 5. This discussion has been deleted in the final EIS.

31

[Typed copy of a handwritten intter.]

2315 Shy View Lane Larense, Myonjeq February 13, 1986

Mr. Jack Kelly B.L.N. Lander Resource Area Lander, Wyoming

Dear Sir:

We can't understand why BLM persists in its anti wilderness bias.

- If you are considering opening wilderness for the benefits of the timber industry, the tempayer can expect to lose again as the government loses money on about 400 of mil timber sold by the Forest Service. All additional roads built leads to more water and air pollution, as well as, lost of wildlife habitat. Erosion of land, also, follows development.
- Eas SLW considered the value of the wilderness land to the state financially if these lands are preserved for their scenic value, wildlife and recreational use.

We know people who live in Illinois who travel to the Lander, Myoning area every year for their vecation. Undoubtedly, there are many others who do the same. Could it be that Big is pushing opening up nore villeteness areas because they know that once an area has roads that area is not likely to be considered as a villeteness areas.

With population growing in the United States, there is an increased need for wilderness areas.

Let's go forward and not backward.

Sincerely,

/s/Hary Sucharda

32

[Typed copy of a handwritten letter.]

Bruce J. Noble, Jr 723 W. 31st Street Cheyenne WY 82001 February 13, 1986

Mr. Jack Kelly, Area Manager BLM, Lander Resource Area P.O. Box 580 Lander WY 82520

Dear Hr. Kelly:

To get right to the point, I am ending along my personal recommendation that the BM great withcrease designation to all the Devetweet Camyon, Devetweet Particularly strong feelings regarding both Devetwater Camyon and Devetwater Rocks. In 1993, I had the good fortune to apend the summar vorting at Bouth Pass city Sittorie Site. I bleves fealing vith the unique besty of Pass city Sittories Site. The two passes and the vith the unique besty of the standard of the standard passes of the standard passes

As a masher of the Orespor-California Trails Association and an employee of the Wyoming Bistoria Preservation Office, I can quite sware of the historic value of the Desetwater Mocks area. It is essential that these rocks receive vilarrams designation in order to preclude development in a near adjacent to historical resources and it would be arhame to compromise the value of the trail on any work.

The remaining area I mentioned at the outset of this letter are equally worthy of wilderness designation. I hope the BLM will seriously consider granting such designation. Doing so would represent a great service to the state of syouling and its people. Thank you for your time.

Sincerely,

/s/Bruce J. Hoble, Jr.

Responses to Letter 31

- No commercial timber resources have been identified in the WSAs. Consequently, sale of timber was not considered in the decisions affecting the proposed wilderness areas.
- We have considered the value of wilderness areas to the state of Wyoming and the general economy. Please refer to the socioeconomic analysis in the Lander RMP/EIS (USDI, BLM, 1985b).

Response to Letter 32

 As outlined in the Lander RMP/EIS, the Oregon/ Mormon Pioneer Trail protective corridor covers ¼ mile on each side of the trail, or visible horizon, whichever is closer. The BLM has determined this to be a sufficient corridor to protect trail values. Management recommendations outside of this corridor (such as the Sweetwater Rocks WSA wilderness suitability) may take into account effects on the trail, but these effects must be weighed against other values and uses. Outside the corridor, an effect on trail settings is just one of many considerations to be considered for land-use recommendations. Donald A. Smith 519 College View Drive Riverton, WY 82501

February 12, 1986,

Mr. Jack Kelley Manager Lander Resource Area Bureau of Land Management Lander, Wyosing 82520

Dear Mr. Kellev:

Firstly, I want to complement you on your Lander Area Resource Management Plan. By and large it appears to be middle of the road, and exhibits some degree of balance. Further, I wish to thank the Bureau for the opportunity to comment on this plan.

I do, however, find fault with the Lander Resource Area's recommendation for partial wilderness of the Sweetwater Canyon Area, WSA-MYO-30-101.

I feel that any area which is truly wilderness, and contains no economic value, will remain so. No prudent person will expend capital, time, and energy to access these areas without promise of capital return.

While many of these areas contain no PRESENTLY KNOW mineral potential: the present state of knowledge precludes assuming that none will EVER be found.

With 8.79% of our state already locked up in Congressionally Designated wilderness and National Park, most of the latter which is ADMINISTRATIVELY: endorsed wilderness; I do not feel that the citizens of this state should be burdened with AMY additional wilderness;

Sonald A. Smith

34

[Typed copy of a handwritten letter.]

January 13, 1986

Box 831 Lander, Wyoming 82520

Mr. Jack Kelly Area Manager Lander Resource Area Lander, Wyoming 82520

Dear Mr. Kelly:

In protest the BLM's recommendations for only Partial Wildercess Designation for the Sueezvater Conyon WBA, and Honvillercess Designations for the Overvater Conyon WBA, and Honvillercess Designations for the Sueezvater Conyon WBA, and Honvillercess Designations for the Sueezvater Conyon WBA, and Honvillercess Designation of the Sueezvater Conyon WBA, and Sueezvater Cony

Sweetwater Rocks WSA's

It appears that the BLM's primary reasons for the proposed nonwilderness designation are fivefold:

- 1. A large amount of surrounding private lands.
- Nuisance of recreation to local landowners who don't wish to have a wilderness area in their "backyard."
- Motorized herding of livestock and maintenance of range improvements would be affected.
- 4. Motorized recreation would be restricted.
- 5. Potential for adverse impacts on the mineral and energy industries.

These perceptions are not supported by the BLA's analysis. The draft EIS found only alight impacts would occur in these five areas as a result of wilderness designation. Four studies from that wilderness designation does not be a supported by the supported by t

Response to Letter 33

 You are correct, of course, that more mineral values may be found in the future in some areas that are now evaluated as having low potential. If Congress decides to designate the Sweetwater Canyon as wilderness, new mineral exploration would be precluded from that area, except in instances of valid existing rights.

Responses to Letter 34

- The differences shown in our analysis between impacts from wilderness designation and those from nondesignation are slight (see the comparative impact summary tables). Please refer to the response to letter 17 for additional information on your concerns.
- The potential for activities that could affect successful reintroduction of bighorn sheep into the Sweetwater Rocks is extremely low. Bighorn sheep could be reintroduced whether or not the area is designated wilderness.
- It would be difficult to keep recreational ORV use from occurring in that portion of the Sweetwater Canyon WSA that is not recommended for wilderness. Little, if any, mineral activity is expected in the nonwilderness portion also.
- 4. If the Sweetwater Canyon was designated as wilderness, the lands would be closed to mineral entry and mineral leasing. Such a closure would preclude any future prospecting, exploration, or mining to determine whether or not there are any mineral resources of economic importance. It is this preclusion that is evaluated in the final EIS. The statement that the gold was not mined at \$700 an ounce has been taken from the final

determined that Wilderness Designation would have only slight impacts on the life-style of local landowners. And the nuisance feared by these ranchers from increased use and trespass would be insignificant.

As stated in the draft EIS the Ewestwater Rocks MSA's are virtually roadless. There are approximately 7 sepences of two tracks averaging only 1/2 mile seach, FreseII mestice operations is mobile little whichize use insafes the III the second of the season of the season of the season of the II twestock operations would be conducted in virtually the same samesr as they are today. Admittely/ closure of these roads would impact websicate recreation. However, the impact of the loss of 7-1/2 mile sepants of road would be very alight and have little effect on recreation.

As to the potential for adverse impacts on the mineral and energy industries. It appears this would be extremely might. The draft ITS clearly matter that the potential for mining hardroom innerals and recovery of oil and gas in the MEA's is low. Milderness Designation would thus have little effect on these industries.

The Sweetwater Rocks MSA's have very high natural and wildland values, wilderness designation would preserve for all the public an area with unique many states of the second sta

Sweetwater Canyon WSA

I favor full Milderness Designation for this MSA rather than the Partial Milderness proposed by the BLM. In your analysis in the Draft EIS it appears that Milderness Designation for the entire 9056 acres would result in only a slightly higher degree of impact than already caused by Partial Designation.

The Bilt's main concerns appears to be-that vilderess designation for the additional 1000 areas of the MAX would result in hardship and inconvenience for livestook herders and other users of motor vehicles through additional road closures. Secondly there would be a potential for adverse spacets on the second of the second

Designation of Wildeness for any part or parts of the WiA would result in road closures. The IAM is already recommending partial wildeness designation closures. The IAM is already recommending partial wildeness designation closures there would be a significant to the control of the would be a significant to the control of the would be a significant to the consuming but there would be little effect on livestock management. Annohers currently use horselves as a common most off of the cate in the Annohers currently use horselves as a common most off of wildeness as in the Partial wildeness. Thus Wildeness pagingation of the entire with would not also the control of the entire wild would not also the control of the entire wild would not also the control of the entire wildeness proposal. Significant degree. The addition, the code to Strubberry Creek, apparently the reacher's most critical access, would be closed where clatter Wildeness proposal. Significantly, access

closures would result in only slight impacts on other motor vehicle users in the MSA. As they would be equally inconvenienced under the Full Milderness at the Partial Milderness.

The BDA's accord objection to Full Wilderness designation for the Dweetweeter Campon WEA occurs in the area of mixing. Tou state that the mining and were were withdrawn from leasing. This is not supported by your own manipals. The draft III states that there is a moderate potential for gold, but in such price of gold was \$100.00 per ource. The WEA has no potential for oil and gas. There are no commercial quantities of valuable minerals though the steam were surroyed for unrained meposits more wore found in or mear the WEA.

The Eventwater Canyon WEA has very high historic values associated with some of the beat preserved sequence of the Orespon/Morcoon Pioneer Trail in the Mest. The pract IES states that the Partial Wilderness Proposal will ensure protection of the trail by closing it to vehicular traffic sed not allowing corridor less well outside the northern boundary of the 570 doces proposed as wilderness. The protection of the Orespon/Morcoon Pioneer Trail that you wilderness. The protection of the Orespon/Morcoon Pioneer Trail that you advocate can only be ensured if the entire 50% acres of the Wild Are designated as wilderness. And even under the latter proposal only portions of the trail will be protected.

The same qualities that make the Overtvator Books WBA's eligible for inclusion in the MWS are present in the entire Overtvator Canyon WBA. In addition the canyon offers fornation concern, the overtvator liver here is free Cloving and has excellent wildlife values and water quality. The civer also offers high quality brown and simbov trout finhing, and the Wyoning can be partnersh as classified it as an important trout water of regional significance.

I encourage the Lander Resource Area is the BLM to rethink the proposed land management actions outlined in the Wilderness Draft BIS. Wilderness the designation for the Powertware Robots Wark, the Copper Monutain WSA, and the entire DSS acres of the Dwestwarter Casyon MSA is critical for Myosing's Course. Backers and Marian Dollar, the Wilderness Harman Marian Dollar, but they wield an amount of control ower federal land management policy well beyond their numbers. Their anti-Wilderness biss is very clear and seems to be weighed more heavily by federal agencies is policy decisions than the interests of other sectors of the public, wilderness is a polici decision to be made by all of the poolic, not just a few special interests. Their decisions contained the community of the poolicy of the public of the public decision to be made by all of the poolic onto just a few special interests. The public decision to the made by all of the public of t

Sincerely

/s/Sharon E. Dooley

- EIS. In addition, the final EIS has been revised to show that little mining activity would take place in the nonwilderness portion of the WSA.
- Your observation on the Oregon/Mormon Pioneer Trail being outside the Sweetwater Canyon Partial Wilderness boundary is valid. Effects on cultural resources are not analyzed in the final EIS for reasons explained in chapter 1.

February 14,1986

Mr. Jack Kelley Lander Resource Area Manager Bureau of Land Management Lander, WY 82520

Dear Mr. Kelley:

I would like to commend you on the Draft Resource Management Plan/ Environmental Impact Statement for the Lander Resource Area. I agree with the Bureau is recommendations and findings with the possible exception of the proposed partial Wilderness designation in the Sweetwater Canyon WSA.

More specifically, isn't the area already protected sufficiently under the present management format? As I see it the Oreon Trail ary intrusion by its protective cortifor status. Furthernore, any mining activity in the area would have to file notices with the BMA and the state Department of Environmental Quality and resource also appears that OSV use, file, viidlife, graing and cultural resources are adequately protected under the current system. With all of these safeguards already in place, why do we need to establish another viiderness area?

As you are well aware, the people of Myoning need to keep and create jobs as well maintain the high quality of life to ensure the state's future. Wherever possible lets keep the public lands open.

keep up the good work!

Sincerely,

Noblimable

Rob Kindle

255 Cathedral Dr.
Riverton, WY 82501

36

[This letter has been retyped for better readability.]

Thursday, February 13, 1986

Dear Mr. Kelly.

I am presently a student here at the University. However, I have lived in trement County 15 of my 34 years and feel close to resource leases there. It period relative to Vildernes recommendations for certain laded in the Lander Resource Area. As many others feel I feel also that the designation of "Milderness remealines" point down for a main lifering free feel and the temperature of the County of the Cou

- Three other area, become, would truly see better management as Wilderness, whiley mountain is already well established as an outdoor recention size. The sheep herd is world famous and the area is bounded by highly popular banting, fishing and hiking tracts. On it on merits and the fact that it is part of a high use area, such activities as oil and gas leasing are highly inappropriate. Wilderness designation appears to be the best resource
- 2 Sweetwater Rocks and the Dubois Badlands are two other areas which should be wilderness. Opportunities for non-motorized recreation are good in both areas. They are unique and present little conflict with ranching and mining activities. The potential for overuse seems limited.

ectivities. The potential for oversue seems limited.

Generally, the solution for oversue in our recreation areas seems to me to make more such areas and encourage the public to seek out the less used districts. I think the Bilm. Now set in to the people of Wopming to show that me the same of the same of

Thanks,

/s/Jim Minick Box 3821 Laramie, Wyoming 8207

Response to Letter 35

Present management would not ensure protection of all wilderness values, only that unnecessary and undue degradation would be prohibited. Existing primitive recreational opportunities could be displaced by mining or future water developments. Opportunities for solitude could be adversely impacted by development. The protective corridor for the Oregon/Mormon Pioneer Trail applies only to ¼ mile either side of the trail and does not include the river or the canyon itself.

Responses to Letter 36

- The Whiskey Mountain WSA is being studied under a separate document.
- The Dubois Badlands WSA is being studied under a separate document.

37

Star C, Inc. Dumbell Ranch Alcova, UY 82620 February, 1986

Mr. Jack Kelly Resource Area Manager Bureau of Land Management P.O. Bex 589 Lander, UY 82520

D--- W-11--

We are relieved that the Lander Resource Area Bureau of Land Management has recommended that the Sweetwater Rocks not be designated as a wildermess area.

As you know, we have lived and ranched along and in a portion of the Susetwater Rocks for many years. We are well sware, first-hand, of the intricacies of these Rocks, and of the numerous probless which could arise if they were, indeed, designated as Uliderness.

Our formal statements, which address, step-by-step, the criteria regarding wilderness determinations are on file in your Lander Bureau of Land Management office. Our position remains the same as it was at the time we wrote the formal statements.

We are increasingly awared to read and hear of out-of-state "environmental" groups who repostedly want to control the use and satus of Upusing's government-owned lands. It is a foregone columin that many of these individuals have never seen, and may never see, any of the lands they want to sanipulate. They cannot need to be a supported to the control of the contro

Ue certainly would not be so presumptuous as to try to maneuver the use of public lands in states other than Uyoming, nor to try to interfere in lands or cities in non-public-land states!

Norman Park and Gaynell Park

38

(This letter has been retyped for better readability.)

January 20, 1987

Jack Kelly Area Hanager SLM Box 589 Lander, WY 82520

Please accept this comment on the Lander Resource Hanagement Plan as part of the official record.

I must begin by saying that I am greatly disturbed by the tone and direction the plan takes for its next 10 years of management. Despite much discussion exploit our federal lands, the slat has almost unanimously veet for market every available resource on the public lands it manages, even at a loss if necessary.

I am particularly opposed to leasing with MSO stipulations the critical visitifs habitat trees of indrew possibilities and the base by the thicket Amoperature has been applied by the companion of the companion of the companion of the sheep and they and yet the recommendation is still made to lease the area. This can only be a state amodes, for I cannot language anymous who were in the lander district being so short-sighted best winter ranges for "Rilowatome eik for the meager possibility of a little low grade, high suiter cades of in an area of such low mineral potential. I strongly urgs you to withdraw all leasing for oil and gas as veil as locatable minerals from stew of critical wildlife habitat and winter case of critical wildlife habitat and winter stews of critical wildlife habitat and winter stews of critical wildlife habitat and winter stews of critical wildlife habitat and winter stews.

while on the subject of visicile, it has come to my attention while out in the Mile on the subject of visicile, it has come to my attention while out in the hills surrounding bubble that severe overgraing has taken place over the years and is not being corrected. In particular, the lands behind the Dubble bediends morth of the Wind River and west of the gast rook set in very poor condition. It has little vegetation, erosion has been a resi problem that its owner of the subject of the subject of the problem of the property of the problem of

Response to Letter 37

Thank you for you comments.

Responses to Letter 38

- Our analysis in the final EIS shows that visitation would probably not increase significantly because of wilderness designation.
- The Dubois Badlands WSA is being studied under a separate document.

I am disappointed that the plan only recommended part of one WEA for vilcerness. The EMI is abouting its True colors have by staying with a commodity orientation in its management plan. The excuses for not making the commodity orientation in its management plan. The excuses for not making the vilcerness is in so much demand the plant of the plant of the vilcerness are closed on the vilcerness is in so much demand agencies designate less vilcerness access. Yet that is what the EMI is suggesting by againg that there will be increased use of as what is a copper Mountained to the BMI that the whole of Emertained Casyon, as will as Copper Mountained to the BMI that the whole of Emission of the Casyon of the Casyon of the Vilcerness of the Casyon of the

I hope the BLM takes the job of stewardship of our public lands more seriously in the next 10 years than they have in the past and consider the possibility that these resources are expandable or conservable as you choose. Let's choose in the common interest of the general public rather than the corporate interest of a few.

I look forward to seeing the final Lander Resource Management Plan and hope it is improved over the presently poor draft.

Sincerely,

/s/Meredith Taylor Spring Ranch RR 31 Dubois, WY 82515

39

FORTY-SECOND FLOOR
IBOI CALIFORNIA STREET
DENVER COLORADO 8020



November 29, 1985

Mr. Jack Kelly Lander Resource Area Manager P.O. Box 589 Lander, Wyoming 82520

Dear Mr Kelly

Thank you for responding to my request for a copy of the Draft Resource Management Plan. I appreciate this opportunity to comment on its contents.

The Resource Management Plan and the Draft Environmental Impact Statement are serviously flawed, and major changes must be made before they will meet the standards demanded by statute, by sound policy, and by simple common sense. Unfortunately, I have Insufficient time to discover smay of the Important Issues in detail, but the most crucial problems with the Plan are so Indiamental they can be stated without lengthy discussion.

 The Plan Should Consider an Alternative Which Would Reduce Development of the Resource Area.

NEPA and Bull regulations require consideration of a spectrum of alternatives. The purposes of RPA are frustrated when consideration of alternatives is unreasonably constricted. Greene County Planning Board v. Enderal Dower Commission, 559 et al (227 (20 cft 1976), cert. denier) 40 U.S. 1086. "All reasonable" alternatives must be considered even if they do not offer a complete solution to the problem. Stitlong Resources Dec. Caucil, Inc. v. Administrator, Energy Research and Development Administration, 64 if Supp. 126 (C.C.D. 1978). The duty to develop and

Response to Letter 39

- The wilderness study criteria are used in the analysis of the management actions of each alternative. Public comment is one of the required quality standards. The criteria address a wide variety of interests and concerns and are not necessarily the same as the concerns expressed in the scoping process.
- A wilderness EIS analyzes the impacts to certain resources in an area if an area was designated wilderness or if it was not. The scoping process itself identifies for the agency and the public those issues regarding what changes may occur with or without designation that need to be addressed in an EIS. The issues identified for analysis in an EIS are not always part of the rationale for the proposed action. Further, an EIS basically answers two questions: "What do you plan to do?" and "What are the impacts of doing so?" In a wilderness EIS, the rationale for the proposed action is necessarily absent. The rationale is detailed, however, in the wilderness Study Report presented to Congress by the Secretary of Interior through the President.

thoroughly consider alternatives to proposed actions requires substantive, good-faith consideration of alternatives to the fullest extent possible, a very high standard. <u>Libby Rod & Gun Club v. Poteat</u>, 457 F. Supp. 1177, aff_din_part_reversed in part on other proposed. 594 F.2d 742

while four alternatives are discussed in the Draft Resource Management Plan (DRPIP). The alternatives in no way represent a spectrum of choices instead the alternatives are mere variations on a single development strategy, and the choices considered were unreasonably constricted. Every Alternative, considered would result in further; development of the Lander Resource Area, no Alternative consistent grounders resulting or cestricting development. The Alternatives selected give the appearance of compliance with statutory mandates while leaving the supstantive choices undiscussed and unscrudinged.

2 The Process Used to Identify Issues and Develop Planning
Criteria Was Serjously Flawed. The Criteria Do Mot Reflect
Consideration of the Public Interest.

The limited range of Alternatives considered is the result of the faulty procedure used to identify issues and develop planning criteria

The BLH has a statutory mandate to consider the public interest in formulating management policies, not merely the comments of a portion of the public. The BLM has a duty to consider the public interest, even if the comments it received about the Plan reflect only a narrow range of

In developing the Lander DRIFE, the BLF considered only the desires of a very limited segment of the public, a segment whose self-interests causely like to the BLFFs Lander Resource Area development policies. The greatest public input about the proposed plan came from Interests in the Immediate vicinity of the Lander Resource Area. The agency did not seriously spoilic the views of interests outside this small zera.

This is clear from the issues ultimately identified. Grazing rights, oil and gas development, commercial timber rights, and the desire of local interests to buy portions of the Resource Area are hardly the issues most

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Americans would place high on the list of issues important in the management of the public lands of the United States, yet these are the issues the agency identified as those to be resolved by the RMP.

These issued clearly do not represent the views of the public as a the basis for the criteria et al. the public interest. Yet they serve as the basis for the criteria each by the BLH. By relying on a small, self-interested group, the BLH avoided its statutory duty to consider the public interest. The agency must do more than listen to the desires of local interests it must base its decisions on what is best for the public as whole.

A. The Criteria Used To Determine Wilderness Suitability
Are A. Sham. They Represent Implicit Choices Against
Wilderness Designation And Do Not Fairly State The Wilderness
Suitability Issue.

The issue of wilderness Suitability deserves special treatment because of the absund manner in which the BLH states this issue while nearly every American, whether favoring additions to designated wilderness or against further designations, would consider wilderness to interest and applications to the formulation of public land use policies, the manner in which the agency states this issue makes its inclusion in the DRPH a sham

Concerns identified by the apercy in its "scoping process" include whether will become a designation would adversely affect mineral exploration and development," whether wilderness designation would selected processes and adversely affect the fivestook industry by reducing or eliminating illustrock grazing, limiting moter vehicle access, disrupting traditional use patterns, and increasing visit or use with resultant problems of vanishism, littler and fire," whether "livestock operators could be displaced or be put out of business," and whether "wilderness designation would limit recreational use through eliminating access by motor whiches

These criteria have absolutely nothing to do with preserving and

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protecting wilderness. They have everything to do with preserving and protecting vested economic interests.

while these criteria may help identify areas of value for grazing, the are completely irrelevant to whether an area is suitable for willdeness designation inherent in the choice of these criteria is a definition of wildeness which amounts to areas undesired by any group seeking economic devicement.

The Wilderness Act contains a much different delinition. See, 16 U.S. 5.8.13.1 Lead. The delinition contained in Si 313 fcd dee service mention suitability for mining or for other economic development, wall the definition interesent in the "sause" used by the SET in this Plant is connectly and honestly attempts to define what wilderness is amd why wilderness is important.

There is little question that developing a management plan requires the agency to reconcile competing interests. This is the reason a plan is necessary. Nonethies the agency should not be allowed to escape the difficult holices inherent in this process by defining one interest in terms which are set by a competing interest. The Bird felins willderness as a reas not useful for grazing or mining. Instead of fairly stating the competing interests, the Birth saw implicitly sected that mining and grazing interests are superior to wilderness interests and evided the very choices the Plan is intended to consider.

Most of the remaining concerns identified by the agency during the "scoping process" are relevant to the wilderness issue. Unfortunately, even a brief glance through the DRMP reveals that these concerns received little actual weight during the decision making process.

4 The Alternatives Selected for Discussion Fither Do Not Represent Cohesive Strategies Or The Strategies They Represent Are Not Adequately Explained.

Little needs to said on this point. I am unable to find an explanation of the Alternatives as coherent approaches to the management of Lander Resource Area. Within each Alternative, the choices appear to represent

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no comprehensive approach instead, alternatives B and Cappear to be more repositories of relatively, randomly selected choices. Similarly the development of the preferred alternative does not represent, a reasoned choice based upon policy. The preferred Alternative appears to represent an incorrent series of choices without amy single unitying purpose or controlled.

Once again, thank you for this opportunity to comment. I look forward to hearing of your decision in this matter

5

Sincerely

Mark Hughes

COMMENTS ON LANDER BLM RESOURCE MANAGEMENT PLAN DRAFT



Cil and Gas Lessing

The overall theme for management of the cil and gas resources within the resource area to make public lands available for lessing to the maximum extent possible on page 280 will not be beneficial to critical wildlife needs. Hamy of the areas that would be open to cil and gas lessing serve as important wildlife habitat and harasment or disurbance by humans can only prove destrients! to wildlife.

The Environmental Consequences you mention on pages (89, 100) and 132 portray an accurate analysis of how oil and gas emploration and development attrasses, disturbs, and displaces wiidlife and how its effects are compounded on critical

I feel that the No Surface Occupancy Leasing selected as the preferred alternative does not adequately protect the critical habitat in a long term manner.

I suggest that two areas which would be affected greatly by this plan, the Mhiakey Basin Bighorn Sheep Winter Range and the East Pork Winter Range should be withdrawn from all oil and gas leasing.

You make that locatable minerals should be withdrawn on these two areas, but not the withdrawl of oil and gas lessing. This is very inconsistant.

Off Road Vehicles (ORV)

Dubois Badiands

I support the preferred alternative to close the entire unit to ORV. It disturbs me to think that there would be little or no smforcement of this abuse if pism is gone ahead with. BLH has difficulty enforcing laws on cuzrent lands.

wilderness

I support the proposal of having the Dubois Sadlands become wilderness. I do not support Whiskey Mountain wilderness proposal.

Nam has coused hisself to manage habitat properly due to past poor management practices. With wildernase areas move, we cannot manipulate or improve axisting conditions. For too long we have suppressed fires, overtimbered and overharvested our resources. By just eliminating these sativities, the areas become december and less productive. We should have allowed some habitat management practices to

The Badlands are a fragile acception (off road vehicles have caused damage to them. By becoming a wilderness area, I feel the BLH can better enforce OFV and protect critical Bighorn sheep, antalope, mule deer and six habitat. This area requires little or no habitat annipulations.

On the other hand the Whiskey Mountsin ares can properly be managed by burning, fertilization, and redeeding low pgidduction areas. If it becomes wilderness, these options Can not take place.

Our lands demand proper management and the abuse of them only decreases the resources. Let's identify these lands which are critical to wildlife and protect them.

Submitted by

Joe Brandl

Box 64

Duber, My 84513

Response to Letter 40

 The wilderness study for Whiskey Mountain and Dubois Badlands is being done under a separate document. 41

[This letter has been retyped for better readability.]

Comments on the BLM Resource Management Plan Gary J. Keimig Box 945 Dubois, Myoming 82513

I find the B L M plan a little confusing as there seems to be both conflicting land use planning and because of this I have a hard time trying to find an overall preferred alternatives.

I first of all, feel all crocial wildlife bublists should be withdrawn from oil/gas and mineral leasing. In the event a major oil/gas or sincest [find should occur I feel the BLM should spell out the consequences of that discovery and list effects on Wildlife and Mercetton. I particularly feel these concerns are of utmost importance in view of the recent findings of the Putures Project which I personal feel are the most realistic verbusion of symming I have ever leastd. As we move into the list century the Wildlife and the sconesy of our state and the velface of our continum. The ext twenty west will see our country becoming less dependant on fossil fuels as alternative smergy sources begin to become a reality. The way we manage our Wildlife resources today will determine the quality of life our state will have to offer chamters.

I am definitely opposed to any kind of Oli/Ose leasing or mineral leasing of lends in the Whitery Mountain and in the East Force Section 2008. The Lines in the Whitery Mountain and in the Company of th

In evaluating your fire-controlled-suppression plan. I think each fire should be evaluated. Many positive benefits can result from most fires.

I have spent a great deal of time in The Dubois mediands and find it to be one of the most intiguous areas I have ever seen. Indiscriminate use of this term of the most intiguous areas I have ever seen. Indiscriminate use of this see a term of the seen of th

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[This letter has been retyped for better readability.

Page

Please accept the following comments on the draft Lander Area Resource

BLM's 1984 report to congress states. "Alt manages more vilidife habitate than any other feeder or state agency. The public lands are home to one out of every five big game animals in the entire Onited States, including most of the certious, room and gristly heaves, desert bighon sheep, moses, mule deer, and of ciparian habitates, 323,000 miles of perennial streams, and mearly 4.2 experience of ciparian habitates, 323,000 miles of perennial streams, and mearly 4.2 experience of the contract of the case of increase and classrasive, but these opportunities med to increase as the demand for outdoor recreation increases. Today in Myoning, a growing number of soutcomer of the contract of the contra

One of the gracest faults of the draft resource management plan is its lack of alternatives which would increase wildlife and recreational opportunities. In fact, critical widdlife helpitate would be peoperationed or last if the plan is implemented as written. The most alarming example of this is the proposed oilyse leasing with MOO stiplutions of Bull Lands on Maintey Mountain, Red oilyse leasing with MOO stiplutions of Bull Lands on Maintey Mountain, Red mineral leasing on the Landser Slope. These proposals are unacceptable. The idea to lease the entire 2.5 million acre Lander resource area for oilyse is as unreasonable as proposing to change the entire 2.5 million acres into eit and bighorn sheep winter range. It is not in line with the suitties use concept when irreplicable critical habitat and winter is Jeografied by mining adequate protection for wildlife habitat.

The BLM has signed an agreement with the Wyoming Came and Pish Department and the U.S. Fish and Wildlife Service to withdraw the East Pork els wister camps from oil/yas lession. This agreement is still in affect. It is addening and froutzeting to spend tiles energy, manpower, and money year after year in order to protect critical Wildlife seas such as the Baut extery ear in order to protect critical Wildlife seas such as the Baut exclusion by disreparting their agreement and proposing to laste the entire Lander resource acts.

Another serious fault of the draft resource plan lies in the grazing program. The grazing supplement appendices show easy resting allocates having vegetative conditions cated as poor yet the allocatest are categorized as "nt allocatest. It is not fair to the public to manage their land in this manner. Now, during the planning stage, problem areas need to be identified and solutions proposed. An improvement of vegetative conditions will benefit

Response to Letter 41

 The wilderness study for Dubois Badlands is being done under a separate document.

Response to Letter 42

1. The All Wilderness alternative was not chosen for the Sweetwater Canyon WSA because of conflicts with motorized access and mining claims. The area outside the partial wilderness is not easily blocked off to keep motorized vehicles out. If full wilderness designation were recommended, there would be conflicts with unauthorized motor vehicle use in wilderness. The partial wilderness recommendation eliminates this potential problem while still preserving the wilderness values of the canyon itself.

ACEC designation was not recommended for the Copper Mountain and Sweetwater Rocks WSAs. Although both areas have significant values, we think ACEC designation is not necessary. The potential for development in the Sweetwater Rocks WSAs is very low, and other uses of the areas do not pose any danger to the important natural, recreational, wildlife, and cultural resources and qualities. The development potential is higher in the Copper Mountain WSA, but we believe that development can be planned to mitigate possible impacts on wildlife and recreational resources.

livestock and wildlife clike. The SLM and many grazing leave bolders are doing a good job on roumstoss allothemate. This shows the job can now done right, make profite for the leave holder, and grotect other resources. I use the LLL to correct areas with grazing probless and not continue with status quo management in profiles arease.

Specific Recommendations

[] Withdraw foom oil/gam and mineral leaning BUR lends on the whistey Basin Bighore sheep winter cracks. Ohe East Pork elb winter cames, and all critical wildlife winter and bickbee factor. 31 Transplant Bighore Sheep into the Shweetwater Tocks. 32 Interaction of the Community of the Community

observed.

(1) Include all of the Swettwater Canyon WSA Into wilderness status.

3) Place the Compose Mountain and Sweatwater Socia was lete ACC stream with

4) Protect the unique recently values of the Dubble Saclands with sither

wilderness or ACC status. Withdrew the eres from oilgas and smeral lessing.

7) East changes is faderal is and which would allow for some efficient

favored over wildlife or foometic liverach.

(a) The transportation system should be examined for:

(a) ways to increase gubile access to public leads.

(a) ways to increase gubile access to public leads.

(c) ways of marking and posting signs identifying Sts lands.

Thank you

/s/Tony Taylor Springs Ranch Dubcis, wy. 82513

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[This letter has been retyped for better readability.]

Page 1

Jan. 29, 1986

Jack Kelly, Area Manager Bureau of Land Management Lander Resource Area P.O. Box 589 Lander, Wyo. 82520

Re: Comments on the Lander Resource Area Wilderness Recommendations

From this vantage point I can also make out every highesy, power line, troma pond, power plant, stipmine and ufanium ail. Many are sbut-down now, but the millions of access of "vide, nunceopped poblic land in the Lander Resource Area, how preclose little is left without the imprint of man. I remarker, in False, Cyclose with the land that the land in the Lander Resource Area, how preclose little is left without the imprint of man. I remarker, in False, Cyclose with the land in the lander land in the Area (and in the Area (and in the Area (and in the Area (and in the Area) and in the lander of the Area (and in th wilderness.

So now we are in the wilderness recommendation phase. I've read your draft environmental impact statement and I cast' believe your conclusion. If you can be a supported to the property of the land below the rise on a small stretch of percentage of the land you manned as wilderness? The read was to protect one percent of the land you manape as wilderness? The property of the land you manape as wilderness? The property of the land you manape as wilderness? The property of the land you manape as wilderness? The property of the land you manape as wilderness? The property of the land you can be a supported by the land you can be a supported by the land you will be a supported by the land you can be a supported b

The Dubois Badlands management unit was reinstated as a WSA following the printing of the draft RMP/EIS. If wilderness designation is not chosen for the Dubois Badlands, they will revert to management proposed in the RMP/EIS. That plan recommends ACEC designation for the Dubois Badlands. This management would include "no surface occupancy" restrictions on oil and gas activities in the WSA-encompassed lands. Mining plans of operations would be required in the entire Dubois Badlands management unit.

Responses to Letter 43

- 1. The four WSAs collectively called the Sweetwater Rocks are analyzed separately in the final EIS. All Wilderness and No Wilderness alternatives were analyzed for each WSA. No boundary adjustment could be made on any of the four WSAs to reduce conflicts or to make a more logical boundary. Please refer to Chapter 1 for a discussion on the possibility of Congress designation one or more of the Sweetwater Rocks WSAs in any combination.
- 2. Wildlife and archeological resources were not identified as resources on which there would be significant impacts; therefore, they are not addressed in this EIS. No specific wildlife population was identified that would be affected with or without wilderness designation. Archeological resources would be protected regardless of wilderness status of the area. Recreational resources are discussed in chapters 3 and 4 for each WSA in the Sweetwater Rocks.
- Dubois Badlands and Whiskey Mountains are being studied under a separate document.

dEIS, and mention two additional "Matt drops" that I fear will be next to get the axe if your anti-wilderness bias continues.

Deservate Canyon. Tes, the canyon deserves protection, but so does the surrounding roadless plateau. Tow are verried about the overcise that this sail villetness shift receive. Bo thy not include sore acres and preclude botton is great for fishing and hazardous (hopeless); fiver running, but the surrounding rises offer vitate points and a different experience. Given the roads in the area, one occasionally sees a truck from a perch on the fish, but most of the time there is a feeling of complete solitude. In summary, the entire roadless area would make a more complete wilderness and would provide sellitimes protection for the dampin.

entire roadiess area would make a more compiese wilderness and would provide additional protection for the capyon.

Severvater Books. Your recommendation for no wilderness here astounds me!

This is perhaps the measter wild area in the resource area. I had found hopes are not to be a several provides and the several provides area. Indicad, I see every one of the units offered up to fature development. If the Develvater Books endors on that our grandeoliders can easy them, it appears that it will be because of bind luck and undevelopable lankin Dome, fullers Pockst, the Monostone, pplit Books and other special places are a national tressure, and I can't believe you are so willing to wilk away from your obligation to protect and preserve this area. Many of the save from your obligation to protect and preserve this area. Many of the mon-wildenness crossmendation, You may think that his area will "protect itself" from development. I pray you are right, but what's so wrong with itself from development. I pray you are right, but what's so wrong with itself from development. I pray you are right, but what's so wrong with a scient violation of CKQ and Blug quidelines to examine the full range of alternatives. No attempt was made to redear boundaries to reduce conflicts, and it is not the provided and the provided and the provided as a complete of the will be a complete the provided and the provided and

Copper Mountain (Birdsey Pass). There's nothing superlative about this area in my mind, except that it is the last sizeable public roadless area in the entire Di Creav/ridger mountain Range. When you look at the secrificed land understand just how important it is to protect this one remaining island in a see of development. You have an obligation to manage for the full range of multiple week, and mountain it is to protect this one remaining island in a see of development. You have an obligation to manage for the full range of multiple week, and mountain it is not to the resource area have you taken the protection. I'dlike to see this area designated videorase, but as the very least it deserves some sort of roadless area protection through administrative channis.

Dubois Badiand. Please, please drop your anti-wilderness bias when you finally wealuate this area. Yee, it is small. But, it is one of the Boat researchie areas in the state and it could so satily be lost forever if you have a search as a search of the search as a searc

Whiskey Mountain. There is no higher use than to protect this entire area for the bighorn. In my mind, wilderness designation offers the best, most personnet protection. Lanquet to allow the state Game and This Department annagement (iestibility (as contained in the Myoning Wilderness Act of 1981) can be included when this area is added to the Tripparict. Again, whatever designs the so-called Dubois multiple Use Association has for this tract should be resisted.

Thank you for taking the time to read this letter. I hope you will change your recommendation before releasing a final EIS to reflect my concerns.

God bless the Lander area, and let's save some of it:

/s/Bruce Hamilton 731 Peralta Ave. Berkey, Ca 94707

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George D. Langstaff P.O. Box 1270 Lander, Wyoming 82520

Mr. Jack Kelly Bureau of Land Management P.O. Box 589 Lander, Wyoming 82520

Dear Mr. Kelly:

The Lander Resource Area Management Plan and Draft Environmental Impact Distances is an impressive document. I compressible to their professional job in organizing, onespiling, writing, and editing, on their professional job in organizing, onespiling, writing, and editing, an expense. I do vender about the word "popular though (p. 169). I know everyone worked hard to produce a document they could be proved of but I can't imagine that this is what Congress had in mind. Eather than reat sout the planning process and the indecipherable documents that it spans, I will try to limit my comment to substantise mattern. (I am assuming that because there is a comment particle, you must want comments.)

With regard to the plan iteal rather than the management it proposes, the lack of a detailed map showing BMR lands, sites mentioned in the text, and relevant data on a topographic base is a serious shortcome. Section reference to a topographic map and I don't have all the necessary maps. Mapp 3-09, 3-17, 3-29, 3-30, 3-31, 3-31, 3-34, 3-35, 3-36, and 3-39 were particularly examperating. Maps in chapter 5 are a little better but it was still difficult to determine what is being planned for the areas I know.

The very general nature of the management plan does not lend itself to commont, it seems reasonable. It allows a wide range of uses and minimizes implement resistance, and the seems reasonable and the seems of the

Maybe that is why the plan is so wishy-washy: "if a certain proposal is determined to be consistent with the objectives of this RMF (nowhere are these objectives stated), it could be approved without preparing a planning the planning state of the consistent with program (what program) capabilities and priorities," "deequate protection of significant surface resources could be achieved trought the approval process (using what oritoriar) for the plans of operation, "righte-of-way. . might (under what conditions) be granted in on feasible alternative route. . . were available, "these restrictions could be swired if appropriate (last constitutes appropriate)", "RMF actions would be

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analysed. . . and decisions as to compatability (how do you decide what is compatible?) with the unit's resource values would be considered. . . ". I oan't figure out what your plan is.

I confess I do not know BLM's regulations or the laws governing the use of public lands. Maybe if I did, I could understand your plan. In any case, I have always thought that plans were supposed to anticipate and prepare for for the lands. It has a lot I didn't know about. But where do you state what you hope to acception! Mat do you want the Lander Resource Area to be like 10 or 20 years from now? In the plan, I don't see a clear picture of what you envision for the future, nor even may well defined goals. Let mo offer a suggestion: to conserve the lands in their natural state as such as possible and to preserve thair scendic qualities.

Reads, utility lines, and surface disturbing activities associated with petroleum and mineral exploration and development and logging are the most serious threats to scenio resources in the Lander area.

The local chambers of commerce might one day realize that tourism can be big business. Domin and fishing areas in the National Forests are already crowded. Norse, not everyone and river into the wilderness areas. Augment can drive out to the Oregon Trail, Desetwater Books, or just about anywhere that extensive enough. One and rive to, or to within, many valuing distance of most areas of interest. Unfortunately, many people prafer to make their own roads. Whether it's for a seisect line, access to a drill site, for fence maintenance, to lay out sail, to tick ups correase, or just to see what's ower the maxt hill, driving across the contribute damage. It

Limiting vehicle use to existing roads is no solution. It's unworkable. Whatever the regulation says, most people will interpret it to mean just about everywhere, we no gase trails. One man's just through the traceless sage brush becomes the next man's "existing road". Prosecution under an "existing road" regulation would be almost impossible worn if BM semployees were to begin sufforcing it. Whitle travel throughout the resource area should be limited to designated roates only. The control of the resource area should be limited to designated roates only. The control is resource as and other National Porest land, even such stringent measures won't solve the problem completely.

On the same subject, it would be a good idea to set aside an area specifically for Dives. The machines are on the marks and people are buying them. One can assume they will be used and chances are they will be used on public land. It would be worth scarricting a few hundred array preferably in an area already readed by cliffeld or uranium development, in order to forestail an explosion of GIV use and about birroughout the resource area.

On a related subject, I agree with your conclusions concerning access (p. 142). The public should be afforded legitimate access to all public lands. I regret that I cannot relate the scribbles on Rap 3-31 to roads on my topo-

Responses to Letter 44

 Our recommended management for the Sweetwater Rocks area is to retain the existing natural setting. Wilderness values probably will be retained because of the existing natural character of the area and the fact that little mineral potential is known to exist.

Displacement of wildlife, primarily bighorn sheep, would depend on the extent and duration of human activity. At present, access is controlled mostly by private landowners. Management of access for bighorn sheep viewing and hunting will depend largely on cooperation from the landowners, not on wilderness designation.

Ranchers in the Sweetwater Rocks area expressed concern that wilderness designation and uses would cause them more problems than the introduction of bighorn sheep. Only 20 hunting permits would be available at optimum population levels. There is also adequate high quality habitat on public land.

- 2. See response 2 to letter 23. The opportunities for solitude and/or primitive recreation in Sweetwater Canyon are confined mostly to the canyon and the river. The deep canyon, dense riparian vegetation, and numerous tributary draws provide a high degree of solitude. This contrasts significantly with the surrounding low, rolling hills and sagebrush-grass prairie outside the area that would be designated under the Partial Wilderness alternative. That alternative was designed to minimize conflicts with other uses and yet protect the most important wilderness attributes of Sweetwater Canyon.
- The wilderness study for Whiskey Mountain and Dubois Badlands is being done under a separate document.

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graphic maps. Since I can't tell what you plan, let me just say that designated access to Oregon Trail sites abould be a high priority, to discourage unascationed access. Access to the edge of the Dubles hallands, digits bad-lands, and eastern Copper Mountain would be mice. All roads on Walsay Mountain to the contract of the Walsay Mountain would be mice. All roads on Walsay Mountain to discourage with the contract of the wilderness boundary. Those who are not fit incomple to rise a hores should not be driving on those roads either. More effort should be expended on obtaining eassement than on maintaining roads. Roads of the quality of the Stambaugh Loop are inappropriate in most areas. Of course access is of neues if you don't have a map that shows it clearly.

New tilly lines should be restricted to corridors along highways, occurry madestal that it is a constant to the constant and the desamated and reabblished. There can be a lines of the constant and the best war from the constant and destroy constant values are more and destroy constant values are more and destroy constant values are more and the constant and the

Petroleum and mineral exploration and development should be allowed to the extent that sesociated surface disturbing activities can be minimized. The no-surface occupancy restriction should be applied to all scenic or environmentally sensitive areas that have less than a high potential for significant of the second of the second second

Logging should be allowed as long as the sale is profitable (i.e., the combined cost of timber impreseent projects, surveying, marking, administering, cleaning up, and reconstruction (exidding trails excepted). With the present exception of creen Houstini, Bit imber cannot support large scale logging wood, poste, and poles rather than one switcher of divuse value. While salvaging timber is a good idea in theory, it should not be done at a lose to the government. If you can't stand dead trees, burn them. Don't use tarpayers'

Although I enjoy wilderness, I doubt that many areas in the Lander Resource Are suited to that classification. The presence of a major higheys makes the Copper Nountain WSA an unitely visierance acndidate. However, the area could be easily damaged because of the steep topography. New roads and OWWs about 10 percentage to the steep topography. New roads and OWWs about 10 percentage of the steep topography. The words and own the steep topography to all but the area south of the 1560 S. contour (Map 7). The complex goodpoy of the XS, its control visian, and its proximity to Doyson State Park suggest that

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the area is most valuable as a recreational resource.

The Desetwater Rocks are outstanding features that should be preserved in the ratural state. Wilderness designation may not be necessary. Because of the extremely low potential for petroleum or minoral production, the MSA surrounding the rocks should be managed to saintain the scenic qualities and surrounding the rocks should be managed to existin the scenic qualities and primitive ampost of the area. If bighors sheep are introduced, wilderness designation would be necessary in order to prevent abuses by wheeled hunters/speciators. It is interesting that unisance to local ranchers was cited as resen for not recommending wilderness designation but it did not stop you from recommending the introduction of bigorous theep.

The partial viderages internative recommended for the Dweetwater Canyon and its stupid. By allowing wheeled soccess and development to within † mile of the river, you will insure that the viderages worth be widerages. The area beyond the canyon walls would provide a crucial buffer some. If possible, the wilderses boundary smould be extended beyond the Wild. People drive in the wilderses boundary smould be extended beyond the Wild. People drive in the canyon mays, maybe the few trengaments will drive only as for as the edge of the canyon and someone seeking solitude in the canyon might find it. I suggest you take stern measures to blook the trail into the canyon mar the confluence with Stawberry Creek, and the stock trail along itswatery Creek. On my one hike into the area, I saw no signs and was unaware that I was entering a Wild. but I did see the tracks.

As for Whiskey Mountain, its proximity to other wilderness lands suggests that wilderness designation would be appropriate. This designation would also be in the best interests of the bighorn sheep herd. Wilderness designation would not affect the petroleum or mineral resources, which are negligible.

Any developments in the Dubois badlands would be incompatible with the preservation of the unique natural qualities of the area. Consequently, wilderness designation should be recommended.

Whatter or not the Vike are designated, or ever recommended for, withermore thing, build weak to all as it has the present on off thick limited tion. I would certainly recommend the Copper Mountain MiA, Dweetweet Nocke WiA, Dubber bandame, whitewy Mountain, whatevy parts of the Dweetweter liver are on public lands, nost stymess in the Oosth Pwas ares, much of the Sewver are on the Company of t

Castle Gardens certainly quiffies aman ACBC. I encourage you to preserve that fabulous area in a pristine condition. To control vandalises and GRV use, you might consider something like the Porest Sorvice's Campground Heat program. Tou mean't develop the facilities but some gravel in the parking lot would be appreciated.

With regard to cultural/historical sites, the primary concern should be

to prement deterioration. Pences and identifying plaques should be considered for the more notable sites. All sites should be accorded the same presenting as the Oregan Trial; i.e., no development or disturbance within a site of the oregan trial; i.e., no development or disturbance within a site of the oregan Trial; the oregan trial and the organization of the Pour and fine Our Mountain. I was experised the plan made no mention of the Pour Express Statics where the Oregon Trail process Strewberry Creek. Perhaps it is no private land.

To summarise my view of the resources this area has to offer, I think the restrational opportunities are outstanding. There are developed sites along the highway, at bouth Pase, and at Castle Gardens. Phere are the uning. There are the uning. There are the site of the stream, the plains and the deserts, the vide variety of fasoinating geological features, the vilidite, and plant life. There's just being out in the middle of mombers. I have found greater solices of the secondary distances areas in the wind liver Mountains. Tour Maps 1-29, 1-90, and 1-31 may be technically correct but they are nomennes. They greatly understate the area's natural qualities. Bouncing across one of the back the proof of the secondary of the secondary that the secondary is the secondary that the secondary of the seco

The Lander Resource Area includes lands of extraordinary natural beauty: The Lander Recourse Area includes lands of extraordinary natural beauty vide open spaces, sugerbrand planns, wind-weep tieserts, rolling fills, granite knobe, fantastically eroded badlands, and massive sheets of rook dispins off the most proclous and important resource of the area. Nost preclous because it is most easily lost. Most important because vitbout much beauty, the sould withers. In these times when everybody seems so concerned about budgets, economics, cost-benefit analyses, you would do America a great disservice by not considering the spiritual values of the lands you control the

My purpose then in writing this letter is to urge you to do your utnost to preserve the natural scenic qualities of the landscape and the vide variety of recreational opportunities. Assrzion needs its prictine antural heritage more now than it needs commodities. Wherevery the antural entire the state of the state of

Genza D. Lagatoff George D. Langetaff

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330 South Asbury, #4 Moscow, Idaho 83 February 15, 1986

Mr. Jack Kelly Lander Resource Area Lander, Wyoming 82520

Thank you for this opportunity to comment on Lander Resource Areas RMP. After working with you and others on the plan, I can certainly appreciate the time and effort that went into

First, one point about gathering public input-BLM did not send me any information concerning the comment period or public meetings. I would assume that to meet NFAP require-ments, BLM should at least notify the folks on the mailing list.

I am glad BIM is compiling a set of goals and guidelines for longterm direction. But I am disappointed that, as stewards of the land, we have drafted a plan which concentrates almo-completely on commodity production and badly neglects other

when I was with the Lander BLM, many of my fellow employees understoom and respected natural systems. They enjoyed working, hunting, and sightseeing with their families on the understoped junces are the state of t

One of the most obvious examples is the preferred graing continuous examples in the preferred graing excent increase in stocking rates, it advocates numerous impacts in the mass of range improvement. We need not clutter the range with additional fences, reservoirs, and water troughs. Nor range consultants know that livestock caused the initial programme consultants know that livestock caused the initial production shifts and that "undesirable" species will continue to dominate as long as stock overgrase the desirable ones.

In the forest management section of the RMP, I was surprised to see a proposed increase in timber harvest of over 100 percent. Concomments yound, sustained-yield basis? Trees taken in the Lander Slope and South Pass areas are simply not worth the resultant roads and denuded land.

Response to Letter 45

Thank you for your comments. Please see the response to letter 17.

BLM should not open any more land for mineral activities. The current policy withdrawe only five percent of our resource area from oil and gas developement, and the PMY calls for reducing from oil and gas developement, and the PMY calls for reducing 19 percent yearly growth of oil and gas developement over the sixty years will be accompanied by a comparable growth of pristine acreage and quality trout atreams. Areas much as Red Canyon, South Pass, Lander Slope, East Fort, Whilesy Nountain, Dabois Badiands, and the lands mear Sinks Canyon State Park deserre withdramp! from all forms of sinteral satty.

BLM should also curtail mining impacts on Green Mountain. This is one of my favorite places-my home during the summer of '82' when I volunteared for BLM. Yet I hate to go back and see how this mountain casis is being demastated.

Some of the impacts of resource exploitation could be prevented if BlM would implement restrictions with some teeth in them. For instance, withity systems should be restricted to existing corridors in all cases, not just "when possible" (or convenient for developers).

The RMF should specify maximum ellowable levels of siltation, surface disturbance. habitat destruction, and other impacte, and measures to insure these are met.

I was glad to see that the SMP does not call for additional recreation developments. The Continental Divide Mational Semio Frail is no sente more challenging and enjoyable without a tender of the seminary o

More of our efforts should go toward preserving historic structures. At Miner's Delight the buildings are deteriorating budly; and at Hadium Springs, one of the three cabin disappeared completely within the last 10 or 15 years. Roofs need to be foundations. A small interpretise languard away from the foundations. A small interpretise languard budlets of the belight would also be helpful for visitors.

Other cultural pressures deserve attaction as well. I support designation of the Oregon/formon Trail corridor as no area of Critical Environmental Concern, and South Pees as a National Register district. The entire resource area should be thoroughly inventoried for archaelogical values, just as it has been for range, mineral, and timber values.

Most important to me, ELM must strive to preserve the regaining ecientific, aesthetic, and natural values of our printing areas. I support Beaver Ris and Red Canpon as Mattonal Medural Landanaka, and portions of Beaver Creek, Gas Hills, Lander Slope, Red Canyon,

and South Pass as Areas of Critical Environmental Concern, would also excourage establishment of Research Matural Areas to preserve representative communities for baseline data on Yyosing's acceptema.

Wildlife habitat deserves enhancement in all areas, especially those of critical and crucial range. However, I do not feel that we should use herbicides and fertilierer. We need to concentrate on alleviating competition from domestic animals, ONYs, and human development.

I would also like to see bighorn sheep restored to their home range in Sweetwater Rooks, Perhaps comeday we could restore wolves, grizzlise, bison, and black-footed ferrete to the areas they once frequented, too.

Finally, I cannot understand Bib#'s dealed of the worth of our outstanding Villoremes Study rames. Defining ay work with Lander Resource Area, I inventoried each of these, and have also explored them on any own time. All sight are prime candidates for the contract of th

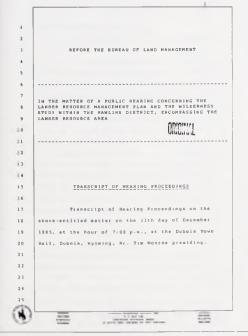
Het HIM downplays their values and contrives excuses not to recommend them for Wilderness designation. I am astounded that such a propegal would come from my collegues-professionals entrusted as caretakers of some of Myoming's finest treasures.

I hope that in revising our RMP, BLM will take to heart its soltiple-use mandate and provide a plan which gives fair value to all resources. I want sy children to be assured of the ease chance I had to hike over rolling hills to Swestwater Canyon, peer into cabins at Hinser's Deligh; study tip! rings in Swestwater Rocks, and see the beauty of Myssing from the top of Green Mountain.

Most sincerely,

Jupan Katar





Hearing Transcripts

This section contains transcripts of the public hearings held in Dubois on December 11, 1985, and in Lander on December 12, 1985. Both public hearing transcripts are printed in their entirety.

PROCEEDINGS HEARING OFFICER MONROE: Well, it's the 2 appointed hour and the hearing will come to order. 4 Let me introduce myself. I am Tim Monroe, the district manager from Casper, and I have been 5 appointed by the state director to be the hearing officer tonight, a hearing concerning the Lander resource management plan and environmental impact statement and the wilderness study areas within the Rawlins District encompassing the Lander Resource Area. 12 Most of you signed the attendance sheets. I think all four of you did as you came in. And if you would like to make a statement, be sure and check 14 15 that space on the list or somehow make your

The official reporter tonight is Jack Walz of Wyoming Reporting Service in Casper. He will prepare a verbatim transcript of everything that's said in the hearing. And if you wish to obtain a copy of it, you can contact Jack tonight or later at your conveniences.

The hearing is being held to obtain comments 24 on the preferred plan for the Lander Resource Area, including recommendations regarding six wilderness

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intentions known to us.

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study areas. A draft resource management plan and environmental impact statement on the subject has been published and is available in the room or outside, if anyone wants a copy to take with them. A few words about our procedure tonight: The hearing is not a debate, a trial or a questionand-answer session. It's an advisory hearing required by law and regulations and all interested persons may present statements either written or oral or both or other information pertinent to the RMP, including the wilderness study areas we are considering tonight. There will be no cross-examination from the audience, but if anyone doesn't understand the statement of a speaker or you need to make a clarifying question, just refer that question to us and we will determine whether or not it's pertinent and see if we can get an answer. This does seem kind of overly formal, but it's intended to give everyone 20 a fair and reasonable opportunity to present their

Any written statements in addition to oral statements will be included in the full transcript and will be considered on the same basis as spoken statements. You may also submit written comments

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until February 14, 1984. And those will be included in the formal hearing record and be considered fully.

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Any comments should be addressed to Jack Kelly, the area manager, Bureau of Land Management --Jack is sitting here -- Boy 589 in Lander 92520 or to Gene Kolkman, who is the team leader on the plan, at Box 670 in Rawlins, 82301.

The hearing will begin now and we will offer the floor to anyone who would wish to make a statement.

(No response.)

UNIDENTIFIED SPEAKER: This must be off the record, but I am not prepared to make an oral 14 statement at this time. But I am planning to make a 15 written comment at a later date. I am just not 16 prepared to make a statement at this time.

HEARING OFFICER MONROE: Ma'am? MS. HICKS: I didn't realize this was a public hearing.

HEARING OFFICER MONROE: You are in the right hearing.

MS. HICKS: Yeah, I am in the right one. I have some opinions on both areas.

UNIDENTIFIED SPEAKER: I come to listen. I didn't come to testify. I plan to do that later.

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HEARING OFFICER MONROE: Would you prefer to send in a written statement then, a formal statement? UNIDENTIFIED SPEAKER: Yes. HEARING OFFICER MONROE: By the 14th of February. Fine. That will be welcome. And it's given the same weight as presenting testimony. MS. HICKS: There is going to be no presentation by the BLM tonight? 10 HEARING OFFICER MONROE: Not the hearing part of it. It's a two-part hearing. The hearing is on the RMP and EIS, the regional management plan and environmental impact statement. 14 Following the hearing will be a scoping meeting on the two additional wilderness study areas that have been added as a result of litigation. So they have 16 to do some supplemental preparation of documents and analyses, studies, that sort of thing on two new WSAs. 18 I suspect that's what you're primarily interested in. 19 20 MS. HICKS: Yeah. But, you know, if nobody says anything, that means that the hearing 21 22 record records that nobody in Dubois had anything to 23

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hearing. But the record is open until February the

HEARING OFFICER MONROE: During the

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14th for supplemental information or plain new MS. HICKS: I feel uneasy about that. HR. STORY: As I understand the supplement -- I have read it all, but there is so much volume of information, that I didn't get -- I am not sure that I retained all of it. HEARING OFFICER MONROE: Sir, excuse me. Could you identify yourself? MR. STORY: I am John Story. I manage ranches for Parker Land and Cattle Company. And as I read it, basically the entire thing is that there is not really going to be much change from what -- you know, no drantic changes anyway in the plan. I don't really know whether that's good or bad. So I am going to just reserve my comments and see what else happens. I really am more interested in the two new proposal -- not new proposals, but reinstated

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proposals to hear what's going to happen or go on

establishing a wilderness area and then just as soon

as that doesn't fit some special interest group's own

idea, well, then they can change their criteria. I

there. I have some mixed feelings about the

establishment of rules and guidelines for



MR. BENSON: I would like to --HEARING OFFICER MONRUE: Would you а identify yourself, please? MR. BENSON: Yeah. My name is Scott Renson. I am here in Dubois. I would like to know who the SLM seems so afraid of prescribed fires. HEARING OFFICER MONROE: Well, as I explained during the opening remarks, which . unfortunately you missed, this is a hearing to 10 seceive testimony and not a meeting that we would normally have to have a dialogue on issues related to 14 federal land management. I know we can answer that question after the hearing part of this is over. 1.4 which probably won't be such langer. Jack Kelly, the area manager here, Dick 1.5 Bastin, the district manager for the Rawling District is also with us, and I know they can answer your 1.6 gwenning. 1.9 MR. BENSON: Okay. HEARING OFFICER HONROE: Did you have any comments on the -- to turn that around a little 71 21 bit, did you have comments on areas or methods or the 25 need for burning? MR. BENSON: Yeah. I think alternative 24 25 need for management of fire management should be the Williams agriculture appears to 2 (500)00 managent without them ---

don't think that's correct. HEARING OFFICER MONROE: You mean the study criteria? MR. STORY: No -- well, yeah, but on the whole criteria for setting up these isolated anote for wilderness consideration, because neither one of those fit the criteria and I don't -- you know, I can't see where special interest groups can come in and change the criteria to fit their own bailiwick. MS. HICKS: I don't know. I think I ought to identify myself. My name is Lanie Hicks and I am a Sierra Club member and I am a member of the Myoning Wildlife Federation. And I fully agree with the interests of John Story, and I am very such in favor of the grazing. But I also support wilderness and I do think that at least the badlands qualify for wildername. And I am very interested in hearing what you have to say about it. HEARING OFFICER MONROE: Sir, we have already opened the hearing, and the time is now for

favor of the grazing. But I also support wilderness and I do think that at least the badlands qualify for wilderness. And I am very interested in hearing what you have to say about it.

HEARING UPFICER MORROE: Sir, we have already opened the hearing, and the time in now for anyone wishing to make a statement on the draft resource manugement plan and environmental impact statement. I know you just came in out of the cold, no to appair, literally. Me would sure welcome anything you had to say on it.

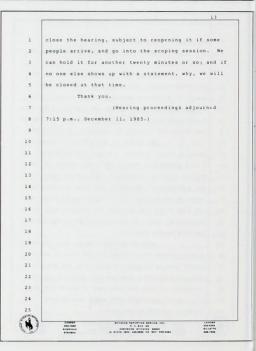
1 preferred alternative. HEARING OFFICER MONROE: Is your interest based on rangeland management needs or improvement of wildlife habitat, or what's your interest? MR. BENSON: Well, 1 think BLM should be a professional land management agency. As such, they shouldn't take the attitude that all fires are . had when I think everybody is aware that some fires ٠ in certain areas will benefit wildlife. They will 1.0 benefit the rangeland. I think they should approach it with that attitude. HEARING OFFICER MONROE: The gentlemen here in the margon aweater, did you care to make a 1.4 statement? 14 UNIDENTIFIED SPEAKER: No. I just come to listen. I am going to send in written comments. 14 HEARING OFFICER MONKOE: Did you hear that the record is open until February 14th 1.9 UNIDENTIFIED SPEAKER: No. 21 HEARING OFFICER HONROZ: -- for written comments? Yes, it's a 90-day comment period. 23 UNIDENTIFIED SPEAKER: What is the 24 difference in the value placed on the public hearing 21 comments versus the written consents?

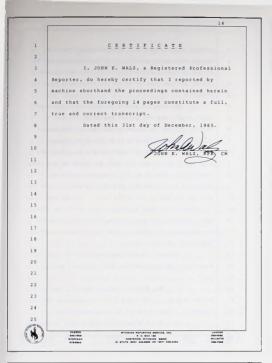
HEARING OFFICER MONROE: None. Both 2 types of comments are given full consideration and full utilization. I realize that at this time and the way the weather is, it's hard for people to get into town or get out to public hearings or even take the time to read the material ahead of time. Mr. Bastin, do you want to recess the hearing in case somebody else comes in and then go into your scoping part of it? 10 NR. BASTIN: Unless someone else has formal statements to make, I recommend we close the 12 formal part of the hearing and we will be available for some questions and answers on the RMP, unless anybody on the panel has any questions. 14 15 MR. KELLY: I would like to respond to 16 some of the points that have been raised. MR. BASTIN: Once we close the hearing, 18 we can do that. 19 MR. BENSON: I would like to ask one 20 final question before we get started. How much of 21 this plan -- by reading through it, it seems a lot of 22 it is still up in the air after this plan has been 23 initiated. How much can be changed at the discretion 24 of a regional director or state director? Are you 25 going to stick by this plan or is this going to be

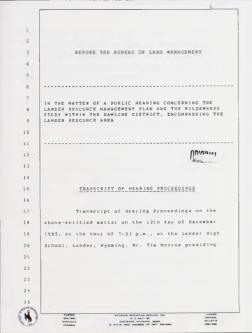
the Forest Service and BLM are pretty much on parallel tracks on it. Our laws are very similar and 2 regulations are very similar. MR. BENSON: That brings up another question as to how much integration was there in formulating this plan as compared to the Forest Service Shoshoni Forest plan that just came out. It seems that certain areas there is a lot of discrepancies to neighboring pieces of land. They're 10 managing it one way and you are managing it another way. And the proposal is still, I believe, for land 12 trades with the Forest Service. HEARING OFFICER MONROE: Yes, the 14 interchange is an issue that would be dealt with. 15 And I know what we have done in our district in Casper is identify areas that are available for disposal, which means sale or exchange, long-term 18 leases, this kind of thing, well, mostly sale or exchange. And I don't know. I am sure by the final --2.0 when the final plan comes out, they will have considered those type of things. We are required by 22 law to have a certain level of consistency with plans 23 of Indian tribes, state and local government, this 24 sort of thing. 25 If there is no further comments, we will SYGNING REPORTING SERVICE, INC.
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followed for the next 50 years, or as a new director comes in, will things change with him? HEARING OFFICER MONROE: The way the procedures are, you go through a draft plan. Then you do the final plan. Then you take the comments that are received, or say a protest comes in on the final plan or something like this, and you issue a record of decision after the comment period is closed on the final plan. And that sets forth based on all 10 the public comments and all other sources of 11 information the final planning decisions. And that 12 record of decision is the management prescription for a number of years, basically ten years, ten to 1.4 fifteen years, although plans can be modified or 15 amended during that process. 16 There is a formal procedure for modifying or amending the land use plan. And you say the state 18 director or another person can come in and change it, 19 only through a prescribed process that would modify 20 the plan or amend it in an open atmosphere. The plan 21 carries a lot of weight in the way the statute is 22 written that calls for land use planning and the way plans are developed and then approved and 24 administered. So there is quite a program there that both

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Responses to Comments Made at Lander Public Hearing

- 1. See response 1 to letter 23.
- It does not matter who is using the vehicles; any vehicle use constitutes a management problem when it occurs in the designated wilderness. It would be extremely difficult to eliminate ORVs from the 3,000 acres excluded from wilderness designation under the Proposed Action.

PROCEEDINGS

HEARING OFFICER MONROE: Good evening

ladies and gentlemen -- gentlemen. The public

hearing will now come to order.

Let me introduce myself. I am Tim Monroe, the district manager from Casper, BLM, and I have been asked by the state director to come over and chair this hearing.

The purpose of the hearing is concerning the Lander resource management plan and wilderness study reports within the Rawlins District which encompasses the Lander Resource Area.

You have all signed the attendance sheets as you came into the room. But if there is anyone that didn't sign up, we would appreciate you doing it if you plan to make a statement. There is one person here that has an X by his name, and that person will be called upon to make his statement that he or she wishes to offer.

The official reporter tonight is Jack Walz of Wyoming Reporting Service in Casper. He will prepare a verbatim transcript of everything that's said tonight. If you wish to obtain a copy of the transcript, please contact Jack and make your arrangements directly with him.

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The hearing is being held to obtain comments on the preferred plan for the Lander Resource Area which includes recommendations for six wilderness study areas. A draft resource management plan and environmental impact statement has been prepared and is available in the room if anyone wants a copy. There are some on the table right there.

A few words about our procedure tonight: This is a hearing as opposed to the normal BLM public meeting. The hearing is not a debate. It's not a trial. It's not a question-and-answer session. It's an advisory hearing. And all interested persons are asked to present their statements or their comments, either written or oral or both, or information pertinent to the draft resource management plan, including the wilderness study areas that we are considering.

There will be no cross-examination from the audience or from myself or the panel members that are here. We are simply here to receive your information and learn what we can about your views on the resource management plan and the environmental impact statement.

This does really seem overly formal. But it's intended to give everyone an opportunity to

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present their views in a nonadversary situation. Anyone wishing to submit a written statement may do so and written statements will be included in the transcript and considered on the same basis as oral

The hearing record is open until February 14th, 1986. And any person who after tonight's hearing desires to get more information and submit written comments, they will be accepted through 1.0 February 14th and given equal weight to anyone who 11 took the time to come out here and speak or any other comments we receive on it. Comments should be addressed to Jack Kelly, the area manager -- Jack is over at the end of the table here -- to the BLM here 15 in Casper or to Gene Kolkman. Gene is on the other 16 end. And they are surrounding Bob Tigner from the Rawlins district office. Send the comments to Gene Kolkman if you care to. 18

> The hearing will now begin and we will hear from the first witness, Mr. Mike Massie. Welcome, sir.

MR. MASSIE: First comment: You need a higher podium. I am sorry I am the only one talking 23 24 tonight. I hope I am not keeping anyone here.

My name is Mike Massie and I live in South

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Pass City, Wyoming. And I am chairman of the Wyoming chapter of the Sierra Club, and I represent about, oh, 2 approximately 600 members who live here in Wyoming. And I would like to briefly talk about the resource management plan, a little bit more specifically about the wilderness part of that particular plan.

I would like to address four points but just in a general fashion. A lot of the details, a lot of the specifics I will just put into the written record and submit that before February 14th.

The RMP contains a few good points but I believe that there are several weaknesses in the plan. First of all, the BLM and in a lot of its publicity throughout the years has expressed or has listed a balanced management approach or generally a multipleuse approach. And there is nothing wrong with that if that's obtainable.

It's definitely an abstract concept and it's not always obtainable. But I think it can be here in the Lander Resource Area. But the draft RMP sort of decries some myth that the BLM is trying to reach in balanced management of the plan. It's heavily dominated by oil and gas, timbering and grazing.

Now, grazing has been going on here in this particular state for over a hundred years. And for



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the most part, ranchers have shown that they can manage the land quite well, especially in the cooperative relationship with the land management agency. So I would like to focus on the oil and gas and timbering and show the premise that these sort of things are really out of balance in the RMP.

Essentially the best illustration is essentially the facts. There is a proposal of approximately six million board feet per year that are supposed to be cut. The RMP also proposes 2.4 million acres for oil and gas development, yet at the same time proposes 5,700 acres for primitive recreation and wilderness. That to me is just not a balance.

On the wilderness question, many other of the resource areas in Myoming have already given their wilderness recommendations and they are much like the one here in Lander. For instance, the BLM down in Rock Springs recommended only one and a half areas out of 13. So far, here in the Rawlins District, combined with the other resource area, it's about one and a half out of eight with two more still to be studied. In Casper, there are no recommendations for wilderness study areas out of the ones they have had up there. And the same with

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DANGER DANGER GILLETTE was created, that area has been roadless. That's why it's a wilderness study area. The wilderness characteristics are there. They have not been touched by oil and gas development and timbering. That's why it's a wilderness study area.

So if you are going to continue management of it and you're going to continue this type of land use, that is wilderness. I'think they were just trying to present some kind of image to the public that by continuing present management, they aren't out there to change anything; whereas, if they really want to do as is recommended, that is, lease for oil and gas and make it nonwilderness, that is the change, not keeping it for wilderness.

Now, in the specification areas, Sweetwater Canyon, now, I gather from reading the wilderness supplement that the reason for leaving out approximately 3,000 acres and recommending 5700 acres for wilderness but leaving the 3,000 acres out is because it conflicts with motorized vehicles, but the study is not clear as to who uses these motorized

It sort of alludes a little bit to ranchers in there. But other places it alludes to people who go in there and fish and who go in there to hunt or

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So essentially what that cases down to, out of 29 WSAs that have been looked at so far, three have been recommended for wilderness. So this plan is definitely keeping with that.

In fact, if you look at the oil and gas recommendations for leasing as opposed to what's recommended for wilderness, a hundred percent of the land in this resource area is recommended for oil and gas lessing. One-tenth of) percent is recommended to preserve its natural characteristics.

Essentially, that seems a thousand times more land will be devoted to oil and gas development or at least leasing than it will be for the preservation of this area's unique beauty. This isn't belanced. This to me is not multiple use. And in fact, there are more uses in wilderness than you can get by going out and poking a hole in the ground or clearcutting an area.

I object to the wording in the alternative. Several times the recommended or the preferred alternative is continuation of present management. Resentially that means not designating the area for wilderness, it's nonvilderness use. But if you look at the use of the area in the past, since the earth

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DILLETTE BILLETTE prople who just like to go in there in their Jeep or whatever and run all over the place. So lit'd not specific as to why these 3,000 acres were thrown out and what user group will be using the area for use by motorized vehicles.

If you look at ORWs, they can use pretty much sil of the lands throughout the BLM ares. And there are legitimate uses for ORWs on BLM land. But if you look at the thousands and possibly sillions of acres in the resource area that ORMs can use, taking in another 3,000 and putting it in wilderness designation isn't going to make that such difference. And as far as rancher use, as the study also pointed out, there are only two graving allotments in this MSA. One of thes has 1 percent of the silotment in the MSA. The other one has 12 percent.

so I don't think motorized use in that area is going to hurt grazing allotments that much. So I don't know why these 3,000 acres have been excluded. On the other hand, they are important to preserve the integrity of the area.

As the BLM admits in the study, the MSA has great fishing, excellent solitude and natural features. So you would have a gester positive impact on these area's society as a vilderness than anything

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else. That's pretty strong language. Why doesn't that jibe with the recommendation? I think the entire area should be preserved as wilderness.

By the way, the only area which is tecommended for wilderness, the 5700 acres, is on steep canyons and you can't drive a vehicle up it. I don't think too many cows can graze up it. You can't puncture a hole in it and you can't timber it. So there isn't much of a compromise. There isn't anything to do with it but make it a wilderness.

Sweetwater Rocks, once again, the purpose of the wilderness review is to look at an area's solitude, to look at the area's potential for recreation. And the BLM admits that Sweetwater Rocks has excellent potential for this, both solitude and recreational values. Why isn't it wilderness?

Once again, it's not really clear as to why it's not wilderness. In one part of the study, sort of buried away, are some objections by some of the ranchers who work in the area. One of the objections is that wilderness designation would bring more people into the area. This a lot of people refer to as sort of a neon light syndrome; that is, as soon as something is made wilderness, people are going to find out about it all over the area and come into the

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904.000 904.0000 904.0000 plan of making it an ORV area is going to do that.
The area definitely deserves wilderness designation.
It's a unique area and you are just not going to find
that kind of setting anywhere else in Wyoning.

Finally, Copper Mountain: The proposal is to open up this area for ORV and oil and gas use, but there is really not a detailed study of what kind of impacts oil and gas use and ORV use are going to have on this area. It is admitted that wildlife are going to be adversely affected and there are many more roads built because of oil and gas development, especially on the southern part of Copper Mountain.

At the same time, BLM says they are going to improve wildlife habitat up there too. You can't do both. You can't expect an increase in the deer herd and elk herd in the Copper Mountain WSA if you are going to also go in there with oil and gas development and have a road too. You can't do both. That's why more studies need to be done.

There is no study of the recreational potential of Copper Mountain. Copper Mountain is right next to Boysen State Park which has an annual attendance of about 200,000 people a year. In addition, it's right next to the Elk Creek Mountain, which also has an outstanding recreational potential.

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area.

Now, that may have some legitimacy in certain forest land, say, around Yellowstone Park. It's not going to have legitimacy around an area that is much smaller. In addition, the study admits people that use the area are almost entirely dependent on Jeffrey City. And considering that population has gone down, less people are using it lately. So making it wilderness will not bring a lot of new people into this area.

Another one of the objections is it will affect their life-style. Well, it's wilderness now. People use it because of its primative setting and I don't think that's going to change with wilderness.

But look at the alternative. The BLM would like to make this an ORV area and advertise it as such. You know, if the people in the area are worried about some pine needle junkies coming into the area and destroying the land, they are really going to have a lot of problems with ORV people coming into there. They are notorious for not staying on the road. They are also going to bring vehicles into this the area, not just backpacking.

So if it's going to affect the life-style

and bring more people into the area, actually, the

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So while oil and gas development in the southern part is high, so is the recreational part, too.

In summing up the wilderness recommendation, these are the only vestiges we have left or only means we have of preserving the important parts of the Lander Resource Area in its natural habitat. To environmentalists, they're important areas. It's like the Sierra Club coming in and telling them to close down the Gas Hills for no particular reason at all, just close it down because we want to make it natural.

Now, we will never say anything like that. But for the reasons that we are closing down what we perceive as our Gas Hills, our real important wilderness areas, there really aren't any good reasons for doing that. There really aren't any land use conflicts, or land use conflicts that can't be worked out. You know, they are the only vestiges that are left. Let's preserve them. They are important to be preserved.

On oil and gas leasing, very quickly, once again, the proposal is to lease a hundred percent of the area. Me do not have any problems with oil and gas development in Lander Resource Area. That's fine. We do have a problem with all of the land being

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leased and developed pretty much. Me think that there are conflicts out there and resources that should be protected that will be impacted by oil and gas development.

One of the problems with the study is its reliance on surface occupancy etipulations.

Essentially, that means if you have a lesse and if you want the oil, you have got to find some other way of getting it out of there rether than going on that land obveicelly and doing it.

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That sounds okay and that sounds like a way of protecting what's up on top. And if the oil companies have a way directly of getting that gas out of the land by angle drilling or other types of means, then that's fine. But there is a lot of access where they are not going to be able to do that. And it has been shown in other cases where these oil companies can go back in and get those surface atipulations dropped. They can remove that surface occupancy stipulation somewhere down the line.

So there is no quarantee. So if you have an area that has surface occupancy, you think it's going to preserve its natural integrity or the ruts of the Oregon Trail, it does not quarantee it.

In addition, while there has not been a

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to protect a lease and they have leases there, other
people can still use the roads and disrupt the

In fact, the Game and Fish has pretty much espoused the idea that if you have about two miles per square mile of road, two miles of road per square mile of forest lands, then you are going to have an adverse effect on the clk.

That's probably even more true on BLN land. And that's one thing which I feel is one of the weakest parts of the study is it doesn't look at the impact of roads on wildlife. And seasonal stipulations will not get rid of these roads and their impact.

rimally, certain areas of real sensitive nature in the Lander Resource Area should be withdrawn from oil and gas lessing all together. That includes the Oregon Trail, Morson Trail Corridor. There is no reason to develop that stuff. The Oregon Trail and Morson Trail is definitely worth preserving.

South Pass Mining District: Even though there are no surface occupancy stipulations, once again on those things, there is no quarantee for the future. Obviously, all wilderness areas, we do not believe that those should be leased, and important



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court challenge of MSOs or no surface occupancy stipulations, there certainly can be in the future.

stipulations, there certainly can be in the future.

Some people, some legal companies who represent oil companies think that there may be a good challenge there.

In addition, oil and gas leading, as the atudy also admits, is going to have an adverse effect over big game over the next 60 years. Big game now is flighting for survival and BLM is important. A lot of paople sort of perceive some of these rocks as starile. There is some important wildlife habitat. In fact, quite a bit.

If the Yellowstone National Park and Grand Teton National Park go ahead and protect all that wildlife after all the Porest Service works hard to protect all their wildlife, it can still be jeopardized by what happens on DLM lands.

There are nowe critical wildlife corridors as well as summer and winter habitats and they are certainly in the Lander Resource Ares. I think those areas need to be withdrawn from leasing, oil and gas

Seasonal stipulations to protect the wildlife doesn't really happen, capecially if there is roads there. If a company puts a road in in order

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wildlife areas, especially elk, sheep, deer and antelope areas and the natural and recreational areas. There will still be plenty out there to lease for oil and gas development. In other words, we need to protect these other resources.

for timbering, timbering causes size real ĸ concern on the Green Mountain area. In fact, I am concerned about Green Mountain altogether. There seems to be an awful lot of oil and gas lessing that's going to be up there as well as an increase in 10 timbering, from 750,000 board feet per year as 2.1 million. That's about a big increase in timbering. And once again, there is no analysis of impacts that roads are going to bring up there. But nevertheless, 1.4 13 Green Mountain has quite a bit of wildlife up there as well as scenic beauty and there is no analysis as 10 to exactly what kind of effect at is coing to have or the wildlife herds in this RMP. 18

So I would suggest keeping the present board feet and also to looking to removing some oil and gad leasing from the area that's affected to protect the wilderness. The six million board feet or generally what the Lander Resource Area is going to shoot for is pretty large. I think that should be reduced also, especially in the Green Mountain. Dubois area and the



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Lander slope. I think that is over -- is going to be

overtimbered. Now, I think that one part of the study is send in that it shows what the various demands for timber is soins to be. And timbering to provide for the local economy, local companies, is fine. But the Whit should not be a reservoir for the large companies to come in here and take out so such wood. sgain, like the Forest Service study, timbering does not benefit wildlife. And that is found throughout the study. When timbering benefits woldlife is when you have a large forest area that doesn't have much open spaces. Then timbering can do it. But I don't think there is any here in the BLM land that is so forested that you have to go in and clearcut it to open up some forest. And it isn't on the Green Mountain. Presently, those conditions aren't present and once again, roads can have a major impact on it.

Now, what are the positive aspects? I think that the RMP is very good on the South Pass Mining District and the Gregon Trail. The South Pass sining area is one of the most historic areas in Wyoning. And this plan does a good job of protecting that. assa for mining plans from the miners who are going to be working in the area while at the same time

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South Pass City, Riverton or Dubois or any of those other areas, they will have an impact on the town. This is important to study, too, because towns don't depend strictly upon oil and gas development or timbering or even recreation. It's a balanced approach. And this resource management plan has to be balanced, too. And it has to look at those impacts on those towns. It's very important. And because of that, because it's so heavily balanced toward development, there really isn't any kind of 10 Wyoming characteristics in this plan. 12 You can take this plan and apply it to New 13 Jersey. If you were to take the cover off of this 1.4 thing, you can look at it and it would alsow look 15 like you could be doing the same thing in New Jersey 16 or Pennsylvania or someplace like that. There is no Wynning characteristics is fore. 1.8 And one of the Wyoming characteristics that I feel attendly about is quality of life. Quantity 19 20 is important. Jobs are important. But so is quality. 21 The people that live here, what kind of recreational



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while there is nil and yes development going on in

apportunities do they have? What aind of freedom do

they have? Up in South Pass City I have a lot of

Freedom terause I can go out in the desert. And



doesn't cut back in the historical use of the area Mining is a legitimate use of that area.

It also protects the historical use senources. And even though my own quibble is the more surface occupancy stipulation on the mining. I think if those things are stuck to by the BLM, then I think that area will be preserved, the same with the Oregon Trail. And it's important to preserve those cultural resources. In fact, of all of RMPs 1 have read, this is by far the best on cultural resources.

Concluding -- finally, right? -- the RMP needs more balance. It needs more primitive recreation. It needs more wilderness areas. It needs less oil and gas use. All of these are legitimate uses of BLH land but they should be coming closer to the balance.

In addition, this study does not really look at what this grandiose plan, the Lander Resource Area, the impact it's going to have on the area's towns. You know, if 2.4 million acres is leased and even a small Fraction of that starts to get developed. you're going to have a big oil and gas boom in this area, something that's going to rival Evanaton. If there is no impact as to what that's going to do on the social ties here in Lander, even Atlantic City,

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the Red Desert, I can still go out in the desert and have my own kind of recreation. But that's quality of life. But it's not really demonstrated in this document.

So I think when I talk about wilderness, when I talk about cultural resources, I am talking about quality of life and I am not talking about oil and gas fields or how such money or what the tax base is. When I am talking about quality of life, I am talking about something like that and that's essething that is important to be put in this

Thanks for the opportunity to speak here tonight.

HEARING OFFICER MONROE: Thanks, Mr. Massie. The next person is Donald A. Smith.

MR. SMITH: My name is Donald A. Smith. I am here representing myself. By profession I am a

mining engineer. I am a westerner. I have lived in western United States my entire life. When I read this plan, I was not too pleased with it. My displeasures were very much the opposite of the previous speaker.

I have done a little research in recent times in connection with another matter where I have

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quantified the amount of wilderness that we have in our state, in our region. The state of Myoming at the present time has 4.99) percent of its land area tied up in wilderness. Of all the wilderness in the press Service system, which amounts to some 26-plus sillion acres, Myoming has about 3.1 willion acres of this, or of the total Forest Service wilderness, we have in our boundaries 10.6 percent of the total. I feel that this price is too such to pay for our citizens, for our job opportunities, for our wey of life.

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In this region, this wilderness that we are talking shout, 80 percent of it is in our immediate locals, in the counties of Fresont. Park. Teton and Sublette and a little bit of Lincoln. This land that's tied up in wilderness is being taken out of production for the economic benefit not only of the people working in the several industries which are dependent upon this, but for the general tax bass.

In my industry, I know that for every job we have in the industry, we create approximately five more jobs to merve the people that are working in the industry itself. If we let our traditional industries which we have been dependent on this state since the very beginning fall into disuse for putting

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atate afford one more square inch of wilderness

On top of the wilderness that we are saddled with, we also have about two and a half million acres of national park which is taken out of production for the benefit of everybody as well.

I didn't realist when I put an X on the paper that I was going to be following the gentleman that just spoke. But he brought up a number of points I would like to refute.

I quese everybody is aware if they listened to the radio, read the newspaper, at the present time in the United States our balance of payments is negative in the amount of about a hundred and fifty billion dollars a year. We are at the present time importing somewhere between 50 and 60 percent of our petroleum mends. Certainly under those circumstances we would be highly foolish to exclude any area that had a trassonable petroleum potential from exploration.

It's been said very recently by somebody that if we were to get into a war of the sagnitude of World Nat Two, we would not have the petroleus to taken us going for six months at the present state of development. Now, lots of people will say, "yes, that's fine. We got through the last one." They



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the land into wilderness so that somebody can get some solitude which they could get just as well in a juil cell, we are doing so at the detriment of all the people in our community and our state.

percent of the tax base in the state of Myoming is attributable to the mineral industry, which, of course, includes oil and gam. Somewhat close to 80 percent of the taxes that are paid in this state come from the mane set of industries. Certainly anybody that looks at these hind of figures must come to remilie that a healthy mineral industry, oil and gamindustry, timber industry and agriculture which are our primary sources of internal revenue must be preserved.

Anyhody can recreate in almost any kind of land under simost any kind of conditions. I have lived in a good part of the world at various times. You can find recreational apportunities anywhere from the top of the highest mountain to the seashore and helms it.

Me cannot afford, this state cannot afford to lock up its potentials in wilderness to the detriment of the state. And that's precisely what is being proposed. I submit that we cannot in this

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will say, "Nell, if that happens, we can go and do
this exploration and do this development." But there
is a very long lag time between the time that you do
the first seismic work and you have a producing oil
field. It's about ten times longer in the case of

It's essential not only for the good of the citizens of our state but for the security of our sountry that our sineral and petroleum resources be explored, be ready for production at the time that they shall be needed. Here is only one way to do this and that a get out on the lend and do the foot was that a secessary to make these

It is easily. I feel that under the strength of the consciously and the same of the servhelping burden that our state now is effecting under from wilderness and national path, is some core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness should be assigned within our than the core wilderness that the core wilderness than the core wilderness than the core wilderness than the core wilderness than the core wilderness that the core wilderness than the core wilderness that the core wilderness the core wilderness that the core will bear the core will be core will be core will be core will be core w

Appreciate your satisfies the time to come over.

Does anyone else in the audience wish to

affer oral comments?

NR. WOLTERSDORF



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26 HEARING OFFICER MONROE: Sir. MR. WOLTERSDORF: I didn't realize that you had to have a special X on it or a special statement. But I would like to give a comment or two. 5 HEARING OFFICER MONROE: Would you identify yourself? MR. WOLTERSDORF: My name is Don Woltersdorf. I am a real estate appraiser in Lander, Wyoming. I would like to give you a little 10 background on myself before I make my statement. I was raised in the state of Wyoming. I 12 first came here as a little boy about four years old in 1920, in the twenties, early twenties, '23. And I observed the federal lands in the state of Wyoming 14 most of my life. I have spent most of my life in the 15 state of Wyoming. I am a graduate of the University 16 I can remember when we had public domain. 18 19 We didn't have anybody like you people at all -- the public domain. Then we had Taylor Grazing. I want

to emphasie the word "grazing." In other words, the

most important use the lands that you administer were

Grazing. That's the foregunner of your organization,

The Taylor Grazing, Of course, I also understand

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that you absorbed the General Land Office. I am also F. O. BOX 185 CHEYENNE, WYOMING \$2005 IN STATE (800) ASSESSED ON 1807) SPE-44

Massie mentioned. MR. WALTERSDORF: I want to compliment you on the recommendation position of no more wilderness, because the man that was -- the first man to speak talked about recreation vehicles on the lands that you were studying. Now, to me, if that's wilderness -- if a recreational vehicle can get on the land, how can that be wilderness? I am getting so I can't hardly go to wilderness areas anymore, well, I consider wilderness because I get to the point that I can't physically go. But when you can drive a recreational vehicle on the land that you are studying, how can that be wilderness? And I think, too, also, that the federal 15 lands and the state of Wyoming have a very strong 16 effect on our economy and they probably have a more -well, they have at least equal effect of all the 1.8 private lands on all our economy and maybe even more 19 so. When you consider the oil and gas and minerals, they probably have a more -- a stronger effect. And I happen to be one that likes to see people be able to make a living here to enjoy the wilderness. Thank you very much. 24 HEARING OFFICER MONROE: Thank you, sir. 25 Would anyone else care to offer testimony WYOMING REPORTING SERVICE, INC.
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an engineer so I understand that. HEARING OFFICER MONROE: And the Surveyor General. MR. WOLTERSDORF: And the surveyor, yeah. But having lived in Wyoming, I have worked all over the state of Wyoming and observed Wyoming from A to I, top to bottom. I have hunted and fished. I have roamed all over the state. And wilderness to me -- I agree with this second speaker totally. We have enough wilderness to last us forever. As far as 10 I am concerned, we don't need any more wilderness. As a matter of fact, my understanding of wilderness 12 is that it's untrampled by man. It's pristine. And 14 I don't think there is one square inch of BLM land is 15 fits that category. And a lot of forest land now 16 doesn't. I am sure of that because we got signs on our lakes says "Don't drink the water." And I never 18 had that when I was a young man. 19 But my main point is after saying this that 20 I want to congratulate you as I understand your recommendation that you're recommending no more wilderness in BLM land. Is that correct? 22 23

MR. KELLY: Of the six areas that are addressed in that document, there is one of the WSAs that are recommended for partial wilderness that Mr. WYOMING REPORTING SERVICE, INC.
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W SYATE (\$200) ABJUST ON 1007) SIX-4444 ---

the present status quo or less?

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MR. ENGELS: Could I ask a question?

MR. ENGELS: My name is David Engels.

HEARING OFFICER MONROE: That's correct.

HEARING OFFICER MONROE: Yes, sir, it

HEARING OFFICER MONROE: No, not --

MR. ENGELS: Okay. Help me resolve a

MR. ENGELS: Does it administer

MR. ENGELS: Is that right?

legislation, we have some wilderness in Oregon that I

know of, Utah, Colorado -- no, not Utah yet; Colorado;

Arizona, yes. The Bureau's first wilderness study,

designated a wildnerness area such as, for example,

Sweetwater County, does that require more work than

designated wilderness area was in Arizona.

household dispute. When -- if an area were

unless there were some instantly created areas by

HEARING OFFICE MONROE: Yes, sir.

I am from Lander. I am not sure of the reading in

in assuming that at the moment the BLM does not

administer any wilderness land in Wyoming?

wilderness anywhere in any other state?

the back of the wilderness supplement. Am I correct

HEARING OFFICER MONROE: Depends on the management plan for a given area. You can't say just

MR. ENGELS: Thank you.

planning that it requires more or less work.

MEARING OFFICER MONROE: Anyone else care to ask questions or offer testimony? As I did ssy, the record will be open until the 14th of February for any written comments.

Sir?

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MR. KENDALL: I am not familiar with the format of this meeting and who gives testimony and how this -- I have some questions that come to mind after talking to the speakers. But is this the

HEARING OFFICER MONROE: Well, at the conclusion of the formal hearing, Jack Keller and the staff here from the Lander Resource Area or from the Rawlins District would be able to respond to any of your questions. But this is supposed to be a formal hearing that just accepts information.

MR. KENDALL: Okav.

HEARING OFFICER MONROE: But a lot of the staff are here and would be very happy to talk to you on the issue.

MR. KENDALL: I would just then make a

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something that we need to examine.

The first speaker addressed the social impact if we allowed development to come to this area, how -- some of the very tetrible things, you know, that might happen, the things that I can see might happen that might occur if we do allow development in oil and gas and whatever I think would be the unemployment would go down, the foreclosures would go down, the taxes would go down, the filing for bankruptcy would go down. And I think, you know, that those should be listed in our concerns of applies of life.

I have worked near Jeffrey City and I thow many of the people in Jeffrey City and I think we could mak them some real heart-rending questions about their quality of life if that'm our concern with wilderness.

I think that would be probably addressed that I would like to make would be probably addressed better and asked of people, the gentlemen here with SLM when we have a question-and-answer period. And that's all I really have to say right now. But those are are some concerns we have to think about when we consider wilderness.

HEARING OFFICER HONROE: Thank you.

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comment then.

HEARING OFFICER MONROE: Could you identify yourself for the record?

MR. KENDALL: Yeah. My name is Rob
Kendall. I live in Riverton and I came over. I work
for a company that's involved in the minerals
business, and I just had some questions on some
things that I thought would be brought up here.
One of the first things that comes to my

mind when we were examining the wilderness issue, is, like the gentleman that just spoke, wilderness has such a pristine name, you know, you assume that -- it brings many connotations.

But when we think about it, I would wonder who could use the wilderness. Can the aged people use it? Can anybody that has a handicap utilize the wilderness? Can anybody that can't hike five or ten miles use it? And I think these are concerns that we almost have to have ourselves as we place more and more of our lands into this type of holding. Can the people that don't have the money or the time to come out here and buy nice backpacking gear, whatever, can they utilize those things?

Fortunately, I am young and I can. But I know a lot of people that can't. And I think that's

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Well, if there are no other persons who wish to offer testimony, the hearing will now be closed. 2 And as I said, the hearing is open until the 14th of February. And any comments that anyone cares to make on the draft plan will be welcome at that time. The bearing is now closed. Thank you all for × coming-(Hearing proceedings concluded 7:43 p.m., December 12, 1985.) * 12 1.4 15 16 18 19 20 2.2 2 4 N. Alta Piles and Supan Guirdress underste dages to grant am added on ter tot ander

APPENDIX A

WILDERNESS PROTECTION STIPULATION

By accepting this leases, the lessee acknowledges that the lands contained in this lease are being inventoried or evaluated for their wilderness potential by the Bureau of Land Management (BLM) under section 603 of the Federal Land Policy and Management Act of 1976, 90 Stat. 2743 (43 USC Sec. 1782), and that exploration or production activities which are not in conformity with Section 603 may never be permitted. Expenditures in leases on which exploration drilling or production are not allowed will create no additional rights in the lease, and such leases will expire in accordance with law.

Activities will be permitted under the lease so long as BLM determines they will not impair wilderness suitability. This will be the case either until the BLM wilderness inventory process has resulted in a final wilderness inventory decision that an area lacks wilderness characteristics, or int he case of a wilderness study area until Congress has decided not to designate the lands included within this lease as wilderness. Activities will be considered nonimpairing if the BLM determines that they meet each of the following three criteria:

- (a) It is temporary. This means that the use or activity may continue until the time when it must be terminated in order to meet the reclamation requirement of paragraphs b. and c. below. A temporary use that creates no new surface disturbance may continue unless Congress designates the area as wilderness, so long as it can easily and immediately be terminated at that time, if necessary to management of the area as wilderness.
- (b) Any temporary impacts caused by the activity must, at a minimum, be capable of being reclaimed to a condition of being substantially unnoticeable in the wilderness study area (or inventory unit) as a whole by the time the Secretary of the Interior is scheduled to send his recommendations on that area to the President, and the operator will be required to reclaim the impacts to that standard by that date. If the wilderness study is postponed, the reclamation deadline will be extended accordingly. If the wilderness study is accelerated, the reclamation deadline will not be changed. A full schedule of wilderness studies will be developed by the Department upon completion of the intensive wilderness inventory. In the meantime, in areas not yet scheduled for wilderness study, the reclamation will be scheduled for completion within 4 years after approval of the activity. (Obviously, if and when the Interim Management Policy ceases to apply to an inventory until dropped from wilderness review following a final wilderness inventory decision of the

BLM State Director, the reclamation deadline previously specified will cease to apply.) The Secretary's schedule for transmitting his recommendations to the President will not be changed as a result of any unexpected inability to complete the reclamation by the specified date, and such inability will not constrain the Secretary's recommendation with respect to the area's suitability or nonsuitability for preservation as wilderness.

The reclamation will, to the extent practicable, be done while the activity is in progress. Reclamation will include the contouring of the topography to a natural appearance (not necessarily to the original contour), the replacement of topsoil, and the restoration of plant cover at least to the point where natural succession is occurring. Plant cover will be restored by means of reseeding or replanting, using species previously occurring in the area. If necessary, irrigation will be required. The reclamation schedule will be based on conservative assumptions with regard to growing conditions, so as to ensure that the reclamation will be complete, and the impacts will be substantially unnoticeable in the area as a whole, by the time the Secretary is scheduled to send his recommendations to the President, ("Substantially unnoticeable" is defined in Appendix F of the Interim Management Policy and Guidelines for Lands under Wilderness Review.)

(c) When the activity is terminated, and after any needed reclamation is complete, the area's wilderness values must not have been degraded so far. compared with the area's values of other purposes, as to significantly constrain the Secretary's recommendation with respect to the area's suitability or nonsuitability for preservation as wilderness. The wilderness values to be considered are those mentioned in section 2(c) of the Wilderness Act, including naturalness, outstanding opportunities for solitude or for primitive and unconfined recreation, and ecological, geological or other features of scientific, educational, scenic, or historical value. If all or any part of the area included within the leasehold estate is formally designated by Congress as wilderness, exploration and development operations taking place or to take place on that part of the lease will remain subject to the requirements of this stipulation, except as modified by the Act of Congress designating the land as wilderness. If Congress does not specify in such act how existing leases like this one will be managed, then the provisions of the Wilderness Act of 1964 will apply, as implemented by rules and regulations promulgated by the Department of the Interior.

WYOMING BLM STANDARD MITIGATION GUIDELINES FOR SURFACE-DISTURBING ACTIVITIES

1. Surface Disturbance Mitigation Guideline

Surface disturbance will be restricted in any of the following areas or conditions. Modifications to this limitation may be approved in writing by the Authorized Officer.

- a. Slopes in excess of 25 percent.
- Within important scenic areas identified in a land use plan (Class I and II Visual Resource Management areas).
- Within 500 feet of surface water and/or riparian areas.
- d. Within either one-quarter mile or the visual horizon (whichever is closer) of historic trails.
- Construction with frozen material or during periods when the soil material is saturated, frozen, or when watershed damage is likely to occur.

Guidance

The intent of the **Surface Disturbance Mitigation Guldeline** is to inform interested parties (potential lessees, permittees, or operators) that when one or more of the five conditions (a through e) exists, surface-disturbing activities will be restricted or prohibited, unless or until the permittee or his designated representative and the surface management agency (SMA) arrive at an acceptable plan for mitigation of anticipated impacts. This negotiation will occur prior to development.

Specific criteria (e.g., 500 feet from water) have been established based upon the best information available. However, such items as geographical areas and seasons must be delineated at the field level.

Waiver or modification of requirements developed from this guideline must be based upon environmental analysis of proposals, such as, plans of development, plans of operation, or Applications for Permit to Drill and, if necessary, must allow for other mitigation to be applied on a site-specific basis.

2. Wildlife Mitigation Guideline

a. To protect important big game winter habitat, activities or surface use will not be allowed during the period from November 15 to April 30 within certain areas encompassed by the authorization. The same criterion applies to defined big game birthing areas from the period of May 1 to June 30.

This limitation may or may not apply to extended long-term operation and maintenance of a developed project, pending environmental analysis of any operational or production aspects.

Modifications to this limitation in any year may be approved in writing by the Authorized Officer

b. To protect important raptor and/or sage and sharp-tailed grouse nesting habitat, activities or surface use will not be allowed during the period from February 1 to July 31 within certain areas encompassed by the authorization. The same criterion applies to defined raptor and game bird winter concentration areas from the period of November 15 to April 30. This limitation may or may not apply to extended long-term operation and maintenance of a developed project, pending environmental analysis of any operational or production aspects.

Modifications to this limitation in any year may be approved in writing by the Authorized Officer

c. No activities or surface use will be allowed on that portion of the authorization area identified within (legal description) for the purpose of protecting (e.g., sage/sharp-tailed grouse breeding grounds, and/or other species/activities) habitat

Modifications to this limitation in any year may be approved in writing by the Authorized Officer.

d. Portions of the authorized use area legally described as (legal description) are known or suspected to be essential habitat for (species

name), which is a threatened/endangered species. Prior to conducting any on-site activities, the lessee/permittee/operator will be required to conduct inventories or studies in accordance with BLM and Fish and Wildlife Service (FWS) guidelines to verify the presence or absence of this species. In the event that (species name) occurrence is identified, the lessee/permittee/operator will be required to modify operational plans to include the protection requirements of this species and its habitat (e.g., seasonal use restrictions, occupancy limitations, facility design modifications).

Guidance

The wildlife mitigation guideline is intended to provide two basic types of protection, seasonal restriction (a and b) and prohibition of activities or surface use (c). Item d, of course, is specific to situations involving threatened and endangered species. Legal descriptions will ultimately be required and should be measurable and legally definable. There are no minimum subdivision requirements at this time. The area delineated can and should be defined as necessary, based upon current biological data, prior to the time of processing an application and issuing the use authorization. The legal description must eventually become a condition for approval of the permit, plan of development, and/or other use authorization.

The seasonal restriction section identifies three example groups of species and delineates three similar time frame restrictions. The big game species, including elk, moose, deer, antelope, and bighorn sheep, all require protection of crucial winter range between November 15 and April 30. Elk and bighorn sheep also require protection from disturbance during the period of May 1 to June 30, when they typically occupy distinct calving and lambing areas. Raptors include eagles; accipiters; falcons (peregrine, prairie, and merlin); buteos (ferruginous and Swainson's hawks); osprey; and burrowing owls. The raptors, sage grouse, and sharp-tailed grouse all require nesting protection during periods between February 1 and July 31. The same birds often require protection from disturbance during the period of November 15 through April 30 while they occupy winter concentration areas.

Item c, regarding the prohibition of activity or surface use, is intended for protection of unique wildlife habitat areas or values within the use area. These areas or values must be factors that limit life-cycle activities (e.g., sage grouse strutting grounds, known threatened and endangered species habitat) that cannot be protected using seasonal restrictions.

Waiver or modification of requirements developed from this guideline must be based upon environmental analysis of proposals such as plans of development, plans of operation, or Applications for Permit to Drill and, if necessary, must allow for other mitigation to be applied on a site-specific basis.

3. Cultural Resource Mitigation Guideline

When a proposed discretionary land use has potential for affecting the characteristics which qualify a cultural property for the National Register of Historic Places, mitigation will be considered. In accordance with Section 106 of the Historic Preservation Act, procedures specified in 36 CFR 800 will be used in consultation with the State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation in arriving at determinations regarding the need and type of mitigation to be required.

Guidance

The preferred strategy for treating potential adverse effects on cultural properties is avoidance, not prohibition. If avoidance involves project relocation, the new project area may also require cultural resource inventory. If avoidance is imprudent or unfeasible, appropriate mitigation may include excavation (data recovery), stabilization, monitoring, protective barriers and signs, or other physical and administrative measures.

Reports documenting results of cultural resource inventory, evaluation, and the establishment of mitigation alternatives (if necessary) shall be written according to standards contained in BLM Manuals, in the cultural resource permit stipulations, and in other policy issued by the BLM. These reports must provide sufficient information for Section 106 consultation. Reports shall be reviewed for adequacy by the appropriate BLM archaeologist. If cultural properties on, or eligible for, the National Register are located within these areas of potential impact and cannot be avoided, the Authorized Officer shall begin the Section 106 consultation process in accordance with the procedures contained in 36 CFR 800.

Mitigation measures shall be implemented according to the mitigation plan approved by the BLM Authorized Officer. Such plans are usually prepared by the land use applicant's contract archaeologist according to BLM specifications. Mitigation plans

will be reviewed as part of Section 106 consultation for National Register eligible or listed properties. The extent and nature of recommended mitigation shall be commensurate with the significance of the cultural resource involved and the anticipated extent of damage. Reasonable costs for mitigation will be borne by the land use applicant. Mitigation must be cost-effective and realistic. It must consider project requirements and limitations, input from concerned parties, and be BLM-approved or BLM-formulated.

Mitigation of paleontological and natural history sites will be treated on a case-by-case basis. Factors such as site significance, economics, safety, and project urgency must be taken into account when making a decision to mitigate. Authority to protect (through mitigation) such values is provided for in FLPMA, Section 102(8). When avoidance is not possible, appropriate mitigation may include excavation (data recovery), stabilization, monitoring, protection barriers and signs, or other physical and administrative protection measures.

4. Special Resource Mitigation Guideline

To protect (resource value), activities or surface use will not be allowed (i.e., within a specific distance of the resource value or between date-to-date) in (legal subdivision).

This limitation may or may not apply to extended long-term operation and maintenance of a developed project, pending environmental analysis of any operational or production aspects.

Modifications to this limitation in any year may be approved in writing by the Authorized Officer. Example Resource Categories (Select or identify category and specific resource value):

- a. Recreation areas.
- Special natural history or paleontological features.
- c. Special management areas.
- d. Sections of major rivers.
- e. Prior existing rights-of-way.
- f. Occupied dwellings.
- q. Other (specify).

Guidance

The Special Resource Mitigation Guideline is intended for use only in site-specific situations

where one of the first three general mitigation guidelines will not adequately address the concern. The resource value, location, and specific restriction must be clearly identified. A detailed plan addressing specific mitigation and special restrictions on development will be required prior to development and will become a condition for approval of the permit, plan of development, or other use authorization.

Waiver or modification of requirements developed from this guideline must be based upon environmental analysis of proposals such as plans of development, plans of operation, or Applications for Permit to Drill and, if necessary, must allow for other mitigation to be applied on a site-specific basis.

5. No Surface Occupancy Guideline

No surface occupancy will be allowed on the following described lands (*legal subdivision/area*) because of (*resource value*). Example Resource Categories (Select or identify category and specific resource values):

- Recreation areas (e.g., campgrounds, historic trails, national monuments).
- b. Major reservoirs/dams.
- Special management areas (e.g., ACEC, known threatened and endangered species habitat, wild and scenic rivers).
- d. Other (specify).

Guidance

The No Surface Occupancy (NSO) mitigation guideline is intended for use only when other mitigation is determined insufficient to protect the public interest adequately, and it is the only alternative to "no development" or "no leasing." The legal subdivision and resource value of concern must be identified and be tied to an NSO land use planning decision.

Waiver of or exception(s) to the NSO requirement will be subject to the same test as was used to justify its imposition. If, upon evaluation of a site-specific proposal, it is found that less restrictive mitigation would adequately protect the public interest or value of concern, then a waiver or exception to the NSO requirement is possible. The record must show that because conditions or uses have changed, less restrictive requirements will protect the public interest. An environmental analysis must be conducted and documented (EA or EIS, as necessary) in order

to provide the basis for a waiver or exception to an NSO planning decision. If the waiver or exception is found to be consistent with the intent of the planning decision, it may be granted. If found inconsistent with the intent of the planning decision, a plan amendment would be required before the waiver or exception could be granted.

When the "no development" or "no leasing" option is considered, a rigorous test must be met and fully documented in the record. This test must be based upon stringent standards described in the land use planning document. Since rejection of all development rights is more severe than the most restrictive mitigation requirement, the record must show that

consideration was given to development subject to reasonable mitigation, including no surface occupancy. The record must also show that other mitigation was determined to be insufficient to protect the public interest adequately. A "no development" or "no leasing" decision should not be made solely because it appears that conventional methods of development would be unfeasible, especially where an NSO restriction may be acceptable to a potential permittee. In such cases, the potential permittee should have the opportunity to decide whether or not to go ahead with the proposal (or accept the use authorization), recognizing that an NSO restriction is involved.

APPENDIX C

GEOLOGIC TIME SCALE

Era	Period	Epoch	Duration in Millions of Years (Approximate)	Millions of Years Ago (Approximate)
		Recent	Duration	5,000 Years
	Quaternary	Pleistocene	2.5	= 2.5
		Pliocene	4.5	= 7
		Miocene	19	= 26
Cenozoic Mesozoic	Tertiary	Oligocene	12	= 38
		Eocene	16	= 54
		Paleocene	11	= 65
	Cretaceous		71	= 136
	Jurassic		54	= 190
	Triassic		35	= 225
	Permian		55	= 280
	Pennsylvanian		45	= 325
Paleozoic	Mississippian		20	= 345
	Devonian		50	= 395
	Silurian		35	= 430
	Ordovician		70	= 500
	Cambrian		70	= 570
Precambrian			4,030	

GLOSSARY

- ALLUVIUM. Unconsolidated material deposited relatively recently in geologic time by a stream or other body of running water
- AMPHIBOLITE ROCKS. Metamorphic rock consisting essentially of amphibole, a group of minerals with essentially like crystal structures involving a silicate chain, OH (Si₄O₁₁).
- ANTICLINE. An upfold or arch of stratified rock in which the beds or layers bend downward in opposite directions from the crest or axis of the fold.
- AREA OF CRITICAL ENVIRONMENTAL CONCERN. An area within the public lands designated for special management attention to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wild-life resources, or other natural systems or processes, or to protect life and safety from natural hazards.
- ARGILLACEOUS. Of, relating to, or containing clay or clay min-
- BIOTITE-CHLORITE SCHISTS. Black or dark green metamorphic crystalline rock.
- CHANNERY LOAM. Loam containing thin, flat coarse fragments of limestone, sandstone, or schist, having diameters as large as 6 inches,
- CHUKAR. An Indian rock partridge that is gray with black and white bars on the sides and a red bill and legs.
- COLLUVIUM. Loose incoherent deposits at the foot of a slope or cliff, brought there primarily by gravity.
- CROWNED AND DITCHED ROAD. A constructed road graded to facilitate drainage.
- CRUCIAL WINTER RANGE. An area of crucial importance to the survival of a local wildlife population during the periodic occurrence of severe winter conditions.
- CULTURAL RESOURCES. Fragile and nonrenewable remains of human activity, occupation, or endeavor reflected in districts, sites, structures, buildings, objects, artifacts, ruins, works of art, architecture, and natural features that were of importance in human events. These resources consist of (1) physical remains; (2) areas where significant human events occurred, even though evidence of the event no longer remains; and (3) the environment immediately surrounding the actual resource. Cultural resources, including both prehistoric and historical remains, represent a part of the continuum of events from the earliest evidences of humans to the present day.
- DIKE. A thin, sheet-like intrusion of igneous rock cutting across the bedding or foliation of the country rock.
- DIP. The angle between the bedding plane or fault plane and the horizontal plane.
- DIRECTIONAL DRILLING. A method of drilling in which the direction of the hole is planned before.
- ORILL-STEM TEST. Bottom-hole pressure information obtained and used to determine formation productivity.
- ECOSYSTEM. A functional system that includes the organisms of a natural community together with their environment.
- FORB. An herb other than grass; a broadleaf herb.
- GNEISS. A laminated or foliated metamorphic rock.

- GNEISSIC. Referring to gneiss, a foliated metamorphic rock corresponding in composition to granite.
- HABITAT. The place where a plant or animal species naturally lives and grows.
- HABITAT MANAGEMENT PLAN. The BLM's plan for habitat maintenance and improvement. The primary vehicle used in the BLM to fund habitat projects.
- **HEMATIFEROUS BIOTITE SCHISTS.** A schist containing mostly biotite mica with an unusually high content of hematite (iron oxide).
- HYDROTHERMAL. Pertaining to the action of hot aqueous fluids or solutions on rocks or mineral deposits.
- IGNEOUS. Rock formed by solidification of a molten magma.
- LITHIC WORKSHOP. An area where stone tools were manufactured.
- LIVESTOCK GRAZING OPERATIONS. Operations under permit where the primary purpose is the grazing of livestock for the production of food and fiber. Includes pack and saddle stock used in conjunction with such operations.
- LOAM. A fertile and humus-rich soil consisting of a friable mixture of 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand.
- MAFIC. Containing abundant dark colored minerals such as amphibolis, pyroxenes, and certain feldspars.
- METASEDIMENTS. A sediment of sedimentary rock which shows evidence of metamorphism.
- MINERAL WITHDRAWAL. Removal of specific federal lands from availability for mineral development.
- NEPHRITE JADE. Less valuable jade.
- NO SURFACE OCCUPANCY STIPULATION. A stipulation placed on a lease that prohibits any surface-disturbing activities in the lease area. See appendix C.
- OFF-ROAD VEHICLE. Any motorized tracked or wheeled vehicle designed for cross-country travel over any type of natural terrain. Exclusions (from Executive Order 11644, as amended by Executive Order 11989) are nonamphiblous registered motorboats, any military, fire, emergency, or law enforcement vehicle while being used for emergency purposes, any vehicle whose use is expressly authorized by the authorizing officer or otherwise officially approved, vehicles in official use, and any combat support vehicle in times of national defense emergencies.
- PEGMATITE. A very coarse-grained igneous rock with a composition similar to granite. It is usually found in veins or dikes
- PERMEABILITY RATE. The capacity of a porous rock, soil, or sediment for transmitting a fluid without damage to the structure of the medium.
- PRECAMBRAIN ROCKS. Igneous and metamorphic rocks formed during Precambrian time, which ended approximately 570 million years before present.
- PREHISTORIC. Pertaining to the period of time before written history. In North America, prehistoric usually refers to the pre-Columbian period (before 1492).
- PRIMITIVE AND UNCONFINED RECREATION. Nonmotorized and nondeveloped types of outdoor recreational activities

GLOSSARY

- PRODUCTION TEST. Test of a well's productive capacity for hydrocarbons in a particular formation or reservoir that is performed after the casing is set and through perforations in that casing.
- PROSPECT. To search for minerals or oil by looking for surface indications, by drilling boreholes, or both. Also, a plot of ground believed to be mineralized enough to be of economic importance.
- RADIOMETRIC SURVEY. A survey conducted with a radiometer, an instrument that detects and measures the intensity of electromagnetic or acoustic radiation.
- REACH. A straight, continuous, or extended part of a river stream or restricted waterway.
- RECREATION OPPORTUNITY SPECTRUM. For management and conceptual convenience, possible mixes or combinations of activities, settings, and probable experience opportunities have been arranged along a spectrum or continuum.
- RESOURCE MANAGEMENT PLAN. A comprehensive plan that establishes land-use decisions based on the principles of multiple use and sustained yield.
- RIPARIAN. Of or relating to or living or located on the bank of a watercourse.
- SCENIC QUALITY CLASSES. Classes that are assigned to the land for the purpose of rating an area by landform, vegetation, water, color, influence of adjacent scenery, scarcity, and cultural modification. There are three classes.
- SCHEELITE. A calcium tungstate, CaWO₄, which is a commercial source of tungsten and tungsten compounds.

- SCHIST. A metamorphic rock consisting predominantly of mica minerals with a parallel orientation of the mica plates.
- SEEP. A spot where a fluid contained in the ground oozes slowly to the surface and often forms a pool.
- SODIC. Of, relating to or containing sodium
- TUFF. Rock composed of material formed from volcanic debris ejected into the air.
- URANIFEROUS. Containing uranium.
- VISUAL MANAGEMENT CLASS. A category describing the different degrees of modification allowed to the basic elements of the landscape. Class designations are derived from an overlay technique that combines the maps of scenic quality, sensitivity levels, and distance zones. There are five management classes.
- VISUAL RESOURCE MANAGEMENT. The system by which the BLM classifies and manages scenic values and visual quality of public lands. The system is based on research that has produced ways of assessing aesthetic qualities of the land-scape in objective terms. After inventory and evaluation, lands are given relative visual ratings (management classes), which determine the amount of modification allowed to the basic elements of the landscape.
- ZEOLITE. A large group of hydro-aluminosilicate minerals formed especially in beds of tuff. Sometimes valuable for chemical properties allowing them to be used in ion exchange and adsorption.

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